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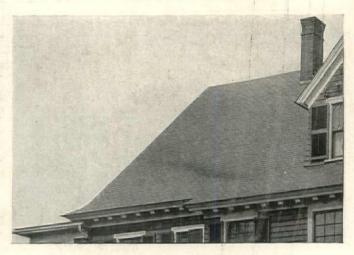
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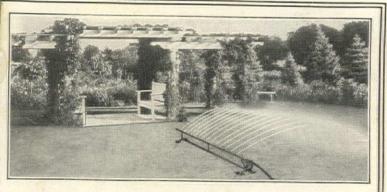
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Who's Who in Dogdom

So far we've described—Airedales, German Shepherds, English Bulls, Pekingese, Collies, Police Dogs, Great Danes, the Russian Wolfhound and the Sealyham Terrier.

This month it's the Irish Wolfhound, and besides showing a picture of a very intelligentlooking specimen, we give a list of reliable Irish Wolfhound Kennels, whose addresses will be furnished on application.

Look through the Kennel announce-ments in this number. Read about the worth while dogs offered. Write to the advertisers for details of the breed you select.



If you do not find advertised here just the dog you wish, perhaps we can find it for you. In writing state breed preference, and the approx of amount you wish to

The Irish Wolfhound

Among the symbols of early Celtic history, few possess greater interest to the student of pagan and Christian Ireland than the Irish Wolfhound—the national dog of

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A good description of the Irish Wolfhound was given by Father Hogan about twenty years ago. He traced the breed back through each century to the year 391 A. D. and said that in that year Flavianus upon his return to Rome from Ireland present-Ireland presentim-

mense dogs to
the Roman consul Quintus Aurelius
Symmactus to provide barbaric
amusement in the arena. It is recorded that all Rome viewed them
with wonder.

In the first century, the King of Ulster and the King of Connaught offered the King of Leinster 6,000 cows and a chariot and horses for a famous Wolf dog and finally went to war over its possession.

In 930 A. D. the laws of Wales put the value of the Irish dog at twice the value of a work horse and affixed a penalty of its full value. Through

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At about that time Capt. Graham, an English sportstime capt. Granam, an English sports-man, secured a few specimens from Sir John Power of Kilfam and with judicious out crossing, brought back the Irish Wolfhound to its original high standard.

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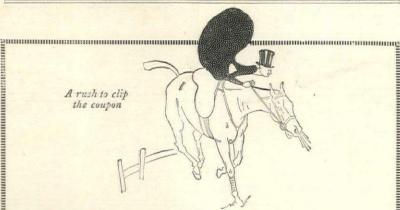
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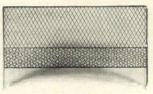


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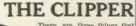


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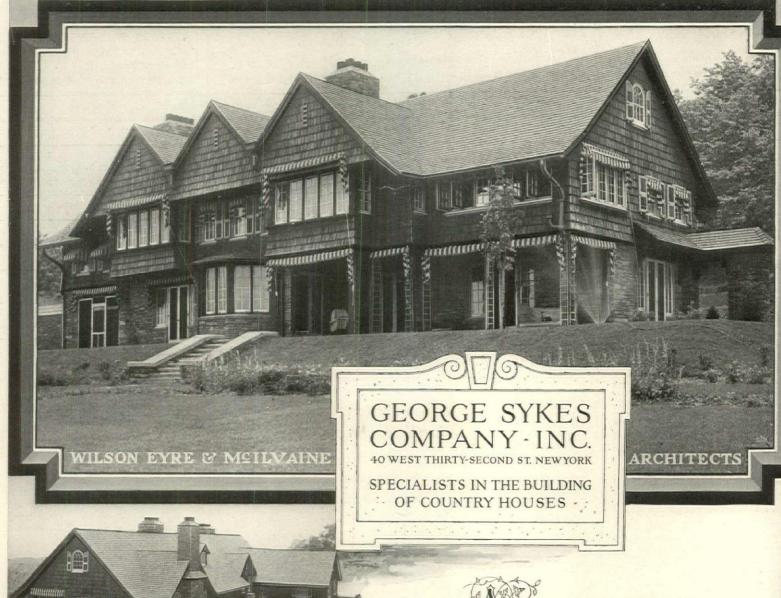


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AUGUST, 1916

CONTENTS

VOL. XXX, NO. TWO

COVER DESIGN BY ELIZABETH BETTS BAINS		NEXT TO THE PONY—THE PLAYHOUSE	26
Frontispiece—A Pergolaed Porte Cochere James Gamble Rogers, architect	8	THE CAR ON THE FARM. F. F. Rockwell	27
THE GASOLENE CAR OF TOMORROW	9	THE DOG FOR THE CAR. THE GARDEN OF SWEET PERFUMES.	29 30
Ernest A. Stephens Gardening With the Car	11	Kate V. Saint Maur Sconces With a Lineage	31
ULTIMATE TOUCHES OF MOTOR CONVENIENCE "Brookfield," THE RESIDENCE OF JAY COOKE III AT C		THE DROUGHT RESISTING CACTUS	
HILL, PA		A LITTLE PORTFOLIO OF GOOD INTERIORS. SEWAGE DISPOSAL FOR THE COUNTRY HOUSE. Theodore Crane	
EDITORIAL		THE LAWN BIRD FAMILY	
A GARDEN THRESHOLD		Robert S. Lemmon "ALLONBY," THE COUNTRY RESIDENCE OF CHARLES PLATT, Eso.,	30
Wilson Eyre & McIlvaine, architects Considering the Lilies	18	AT LAVEROCK, PA	40
Grace Tabor THE AGAVE—A STUDY IN SELF SOWING		Where Iron Enters Into the Garden. The Gardener's Kalendar.	
Silhouettes Old and New		SEEN IN THE SHOPS. YOUR ALL YEAR GARDEN.	
THE LATEST MOTOR MOBILIZATION		F. F. Rockwell FIXTURES AS FURNISHINGS	47

	r. r. wockwell	
	THE DOG FOR THE CAR	29
1	THE GARDEN OF SWEET PERFUMES	30
ı	Kate V. Saint Maur	
I	Sconces With a Lineage	31
١	THE DROUGHT RESISTING CACTUS	32
	Robert Stell	22
1	A LITTLE PORTFOLIO OF GOOD INTERIORS	33
1	SEWAGE DISPOSAL FOR THE COUNTRY HOUSE	36
	Theodore Crane	37
	THE LAWN BIRD FAMILY. TREES FOR ALL TIME.	38
	Robert S. Lemmon	20
	"ALLONBY," THE COUNTRY RESIDENCE OF CHARLES PLATT, Eso.,	
1	AT LAVEROCK, PA	40
J	Joseph Patterson Sims, architect	10
	Where Iron Enters Into the Garden	42
	THE GARDENER'S KALENDAR	43
	SEEN IN THE SHOPS	44
	YOUR ALL YEAR GARDEN	46
	F. F. Rockwell	
١	FIXTURES AS FURNISHINGS	47

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Frank Brangwyn is generally known as an artist. He is also a designer of furniture and a decorator. The September number shows his work

FALL FURNISHING

¶ Refurbish! Refurnish!

¶ Along those two lines the householder centers her activities in September, and on those two lines the September number has been planned. For the leader comes a striking article on English Interior Decoration, showing the work of Frank Brangwyn and Bailie Scott. Then follow a superb small house by Blood Tuttle, articles on Collecting Old and New Sevres Adjusting Furniture to Its Architectural Background, Rugs, The Care of Furniture, A Little Portfolio of Good Interiors, Apartment Decoration, two suburban residences of merit, pages Portfolio of Good Interiors, Apartment Decoration, two suburban residences of merit, pages of the newest rugs, furniture, fabrics, glassware and wall papers. For the gardener is a practical article on Making a Wall Garden, Transplanting House Plants and two pages of helpful suggestions on shrubbery planting, and two pages on Phlox, "the American Plant."

¶ Did you ever stop to think of the aims of House & Garden? Voque tells the up-to-date woman what clothes to wear; Vanity Fair, what books to read, what pictures to see, what currents of modern life to touch. In the same measure does House & Garden teil her what architecture to choose for her house, how to furnish it, and with what garden to surround it.

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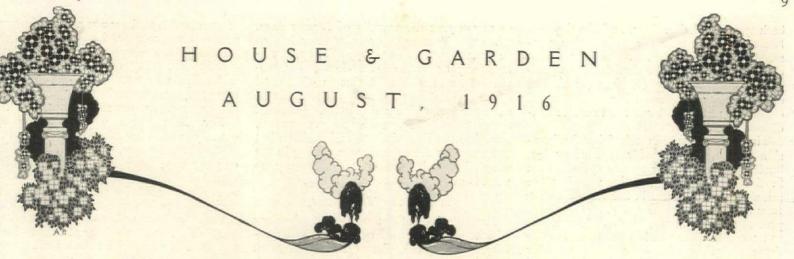


James Gamble Rogers, architect

A PERGOLAED PORTE COCHERE

Photograph by Gillies

The average porte cochere is a sorry thing; it is so obviously "stuck on," an architectural afterthought. Created as part of the structure itself, and treated with such dignity and charm as this corner glimpse shows, it is at once beautiful in itself and a real contribution to the ensemble of the house



HE GASOLINE AUTOMOBILE of TOMORROW

An Attempt at a Prophecy Based on the Immeasurable Superiority of the Present Car Over the Original

ERNEST A. STEPHENS

ABIT is so strongly developed in the human make-up that it will probably name to cause the motorist to speak ily of a friend's car as being of the 1912 stage, thereby inferring to those wise in comobile matters that he himself is the pay possessor of a creation of the midmer of 1916. Although this method is been probably the most convenient way fixing the gulf which heretofore has dened from year to year in marking the vance in design, material and equipment the modern motor car, such a remark longer indicates the marked differences ich existed yesterday and which tomory will be things of tradition.

STANDARDIZATION OF DESIGN

individuality will still find its expresnin the refinements of detail which come to produce approximate hundred per at efficiency in the propelling mechanism which may add to the comfort of the supants of the car, but otherwise the arry defined line of demarcation which separated one season's products from preceding one's will nearly vanish.

This degree of absolute standardization strongly indicated by the recent trend of

omobile engiering world, it would be mature to conde that it is in sense an acaplished fact. that standardtion in all ngs connected h the pleasure was to be ieved in the r future. true that the damental prinles governing operation of internal comtion engine, transmission d the final ve to the rear

wheels are recognized in present practice to a point where standardization may be said to have been effected, but outside these and a few others the imagination of the designer has had full play.

Before dealing with the probable or possible differences which the car of tomorrow is likely to exhibit when compared with its immediate predecessors, it may not be out of place to observe that the total output of the American car factories was about 35,000 in 1906; over 200,000 in 1911, and in the following year, which saw the introduction of electrical starting and lighting in commercial form, the number of cars produced was almost double that of the year before. Each year since has shown a substantial increase in the number of automobiles manufactured in the United States, a conservative estimate putting the figures for the present year at no less than 1,200,000 cars, despite serious difficulties encountered in obtaining supplies of raw material at any price.

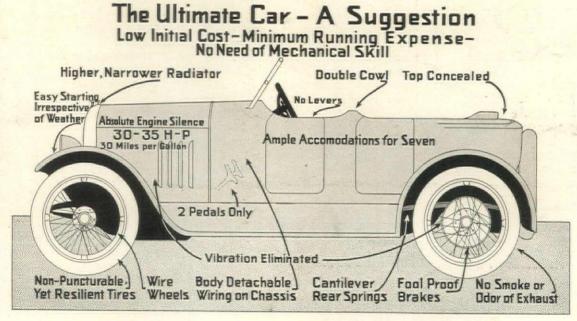
Lessons derived in a great measure from the careful study of the automobile racing game, its failures and its successes, have enabled the automobile engineer to appreciate the advantages of a straight-line

drive shaft, the possibilities of improved spring suspension, the fact that pneumatic tires had passed the experimental stage, and that the use of light pistons and connecting rods meant something of much greater importance than the mere saving of weight only. The information gained from racing experience, in conjunction with that afforded by exhaustive laboratory research, has played its part in the evolution of the touring car of today and thus the motorist is reaping the benefit in the form of a pleasure automobile which, although not even approaching finality in design or materials, is to all intents and purposes a production which combines efficiency and comfort in a distinctly marked degree.

THE AVERAGE CAR OF 1916

An analysis of the various cars of 1916 gives an average automobile fitted with a relatively high-speed engine developing over forty horsepower under normal touring conditions. This engine is fitted with light and well-balanced pistons and connecting rods designed to assist materially in the reduction of vibration at high rotatory speeds. Disc and cone clutches run about fifty-fifty and the three-speed selective type

of transmission is almost universally used. Fuel is fed to the carburetor by means of a vacuum system, the tires are 33 x 4 inches, the average wheelbase is 120 inches. and the streamline touring body ac-commodates five passengers. The one really doubtful point about this average car is whether its engine has four or six cylinders. The figures are so close and commercial competition has improved



both types to such a degree within the past twelve months that the prospective possessor of a six might conceivably match coins with another who expressed his preference for a four and either might be well content to win or lose so far as any actual engine difference under normal service conditions were concerned.

The year was also marked by the invasion of the multi-cylinder type of engine, having either eight or twelve cylinders set in the form of a V, and occupying the same amount of space in the chassis as the four and the six respectively. These have proved successful to a marked degree, but to an extent their use has been confined to those motorists who do not come under the heading of "men of moderate means." 1916 is also identified with a renaissance in the art of body building, and some of the productions are seemingly emblematic of those which will feature in connection with the car of tomorrow. These will be referred to again in the course of this article.

Before leaving friend car of today, it will be profitable to enumerate several little things with which it is fitted and to refer to some of the promises it makes but does not invariably perform. It is fitted with tires which on rare occasions blow out and more frequently puncture, it has gear and brake levers which are both unsightly and awkward (abominations in the sight of the driver). It has brakes which need better attention than they usually receive, an exhaust which seems to delight in the emission of black, evil-smelling smoke, and a carburetor which sometimes fails to cope adequately with the mixed fuels masquerading under the name of gasoline. Assuming that the carburetor is really efficient despite the handicap under which it is expected to operate, the motorist may travel some fifteen miles or so on each gallon of alleged fuel, costing possibly thirty cents. To the foregoing add lubricating and cooling systems of more or less complex nature, recollect possible troubles in connection with them and, finally, feel somewhat surprised at the confidence you repose in your car. Remember that this confidence is fully justified just for so long as the personal equation is taken into account and that the various parts of the car's soul (and streamline body) receive the attention they demand as a return for faithful service rendered.

WHAT THE PERFECT CAR SHOULD BE

Let it be assumed as an axiom that the perfect automobile should be the vehicle of the individual owner plus his family, that it should enable them to leave the beaten paths and to strike out into the byways, that with it the pleasures of the countryside should take on a totally new aspect, in that the beauties of nature may be enjoyed to the full without dependency on any ulterior source of transportation and that, in short, the possession of a car confers upon its owner the right to assume part proprietorship with Henley in his immortal line, "I am the Master of my Fate, I am the Captain of my Soul," in a sense unknown by the individual forced to rely on railroads and live trammeled by timetables. Add to these the sense of freedom conferred by the ownership of a car on those who reside for a portion of the year twenty miles or more from the city and the theatre, and endeavor

to reconstruct the tragedy of former days, when the journey to or from town had to be undertaken, perhaps, by train, tube, trolley, ferry or wagon mixed in varying proportions, and with each change of method of transportation adding to the miseries of even a comparatively short trip. Compare the picture of the past with the present and, pursuing the line of thought, imagine what tomorrow or the day after may bring in the way of added refinement and luxury to what is now a pleasant enough trip.

THE CAR OF TOMORROW

Present indications are that the car which, under the old order, would be referred to as the 1917 model will differ but little in outward appearance from the products of the present year. The body may hang a little lower, owing, principally, to the fact that the springs will be more nearly flat. Efforts may be made to reduce the present average wheelbase of a hundred and twenty inches by about four inches.

THE GROWTH OF THE AMERICAN AUTOMOBILE

Year	Cars Built	Total Value	Average Price				
1899	3,700	\$4,750,000	\$1,284				
1903	11,000	12,650,000	1,150				
1904	21,700	30,000,000	1,382				
1905	25,000	40,000,000	1,600				
1906	34,000	62,900,000	1,850				
1907	44,000	93,400,000	2,123				
1908	85,000	137,800,000	1,602				
1909	126,500	164,200,000	1,298				
1910	187,000	225,000,000	1,203				
1911	210,000	226,500,000	1,078				
1912	378,000	373,000,000	987				
1913	485,000	425,000,000	878				
1914	515,000	490,000,000	951				
1915	892,000	723,000,000	811				
*1916	1,200,000	900,000,000	750				
*Estimated							

This reduction will be, however, effected by a readjustment of the spring suspension, and the body capacity will be in no way reduced. Radiators will be just a little higher and a trifle narrower, and the general effect of these deviations from the present type will be that the car will appear more compact than formerly. cases the streamline of the body will be slightly broken by the top of a cowl located between the front and rear compartments. Especial attention will be given to the interior appointments of the touring body, which will, in many cases, be fitted with individual seats arranged to swivel around, as is the case in some of the more luxurious covered cars at present. Interior and step illuminating electric lights will come into more general use, cigar lighters and hair curler heaters will be included in the regular equipment, and in fact the touring car of the immediate future will be turned out with many of those little refinements which have hitherto been confined almost exclusively to the limousine or sedan.

In the case of the coming enclosed car

of standard type there are already instant of the interior decoration scheme being signed by famous modistes and it is more certain that many of the leading build will surpass all previous efforts in regard to appropriate trimmings and interior faishings that are tasteful and practical.

For the motorist who loves the opcountry and who also is partial to theater or the dance, but who is able to ke one car only, the rapid development of detachable type of covered body has prova stroke of good fortune. This type is designed that it may be readily installed the regular touring body when needed, a as quickly removed when not required wiout the use of special tools or the emplment of a mechanic. The possession such a body enables the owner to thoroug enjoy a winter trip, fully protected fr inclement weather, at a cost which is retively exceedingly low. A year ago ma of these detachable bodies were likely give trouble through rattling or ot causes, but more perfect designing a

workmanship have removed these fau There were no radical mechan changes in 1916, although the sum many minor improvements effected d ing the year left their mark on the as a whole and materially improved The car of to-morrow will continue gain in mechanical efficiency along si lar lines. No very startling changes likely to occur in the near future, the pleasure automobile inspected national shows early in 1917 is prosure to be equipped with a block engine having reciprocating parts of duced weight and accurate balan The small bore cylinder will conti to gain in popularity and the engine form a unit with the clutch and transmission. Improved methods of bureter adjustment will be strongly evidence, and it is anticipated that vacuum type of fuel feed will be u

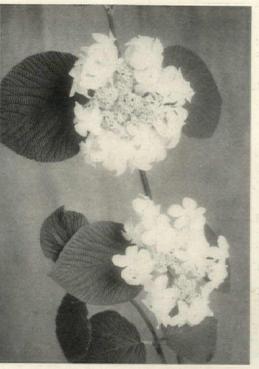
ELECTRIFICATION AND TRANSMISSION

almost universally.

All cars, except the very low-pri productions, will be fitted with engidriven tire pumps, and it is estimated to ninety-nine models out of each hundwill be fitted with electrically-opera-

starting and lighting systems of improtype and greatly reduced weight. As a the ignition will be cared for by the genelectric system, the individual magnetoing used in comparatively few cars. This a strong tendency towards simplify methods of lubrication, oil bolts with revoirs taking the place of the convention grease cups in some cases. An almost relutionary development in this direction the introduction of a system whereby work of filling up with lubricant is a dered necessary only about twice a year

The only opponents to the almost univally employed selective type of transfision are the magnetic and the hydratypes. The former has been developed a point which apparently closely approach perfection, and it seems likely to at popularity in the near future in a mar degree. The hydraulic system, although by any means new in principle, has not be developed to any extent in its possible lation to the pleasure car. It may, hever, prove to be a force to be recked with before very long.



The common hobble-bush, one of the viburnum family, shows handsome white flowers and large leaves turning red in autumn

ATIVE gardening for the amateur is a new art, though the soft beauty of he landscape work in our modern city barks has become a source of refreshment nd pleasure to thousands of people. But he fact is not realized by many people that he high-priced artists who have created it et some of their best effects by copying irectly from nature and frequently use exlusively native flowers and shrubs. These ery plants are growing wild and free in our woods and along our country roads. Almost everyone is somehow or other witha reach of the country, especially by motor. nd the art of landscape gardening need ot be given over entirely to the profes-ional if we once begin to appreciate the ossibilities of our woodland plants.

One of the greatest joys in native gardening the amateur finds in gathering his own material and working out his own design. If he wishes to develop it without professional aid, he will take pleasure in the designing of open spaces and banks of greenery. And the procuring of the desired plants and vines year by year may lead—particularly if he has a useful automobile and some boys and girls to assist in the search—to woodland expeditions of long remembered benefit and delight.

WHAT NATIVE GARDENING MEANS

The new native planting does not consist in placing specimen plants of one's favorte flowers in uncongenial proximity in hard formal beds, to be laboriously shelered through the winter in hothouses or renewed every year with labor and expense. Once planted it requires little care beyond occasional pruning. The plants, growing in their native habitat, withstand undaunted the summer's heat and winter's cold. Moreover, whereas the cultivated garden is a mudbank, as someone says, for half the rear, this with its varied foliage and its vinter color in stems and berries has a new neauty with every season. It has permanence, it has virility, it is in harmony with the spirit of the locality.

"The lawn is the canvas on which the some picture is painted." If the house and

GARDENING WITH THE CAR

Wherein the Lover of Native Shrubs and Plants Finds Endless Pleasure

CAROLINE M. RICE



Shad-bush is one of our best and earliest flowering wild shrubs. Its white blossoms open almost before the leaves

trees give the picture its main accent, it is the lawn spaces and the massing of shrubbery that give the final effect of symmetry and of light and shade. Nature's methods are followed as closely as possible. Harsh, ugly foundation lines disappear behind heavy plantings of shrubbery. Bed lines are never straight nor geometrical, but curve irregularly with careless grace. Flowers in masses give high lights of colors.

The size and situation of the grounds will determine whether one should leave open vistas, as is possible with plenty of space or on a hillside, or enclose a small yard with privacy to shut out the sight of ugly walls and surroundings. With small grounds the gardener should not attempt to get in miniature all the effects of a park, but should select one or two simpler ideas and carry them out. In the end, whether the place be large or small, if he follows the correct general principles, he will give his grounds a distinction that was lacking under the old treatment of formality and restraint.

COLLECTING THE PLANTS

When the amateur native gardener has worked out a design suitable to the ground he is to develop, he next considers what vines, shrubs, flowers and trees can be found in his locality suitable to his purpose. If he thinks there will be little material at hand, let him try what can be done within ten miles of his home, and he will be pleasantly surprised. If he is possessed of the true nature lover's spirit, he may develop the enthusiasm of a collector.

Yet it is well to remember to have a conscience as to where the plants are obtained. The immediate roadside should never be despoiled, nor any woodland nook shorn of



Among the dogwoods, considerable variety is available for the maker of native gardens. This is the alternate-leaved form

its beauty. Sometimes permission should be obtained from the owner of the property. As the fall is generally the best time for transplanting, one possible method of selecting is to go through the woods or meadows when the plants are in their prime, marking choice specimens with bits of tape or colored wool. These can be noted and procured later at the proper season. One advantage of seeking one's own plants is that it takes one to see the woods under the changing lights of the varying seasons of the year. Even trees do not present too difficult a problem for the amateur land-scape lover; he is planting for the future.

scape lover; he is planting for the future. The shrub planting is a very interesting part of landscape work. The shrub border serves with softening effect as a background, as a boundary, or for foundation planting as against the house, and if properly selected is attractive on its own account at all seasons of the year. In spring the blossoms begin, to be followed by a variety of shades of massed foliage and late summer flowers; then its scarlet, gold and purple leaves give an autumn tone, while bright berries and even stems of striking colorings give pleasure in a dreary winter landscape.

WILD SHRUBS AND VINES

Our countryside affords a great variety of shrubs excellent for these purposes. Counted as small trees or tall shrubs for the background in the taller border are the larger varieties of sumac, handsome with their plume-like red fruit panicles; the sheep or nanny-berry; black haw holding aloft its white summer flower tufts and conspicuous fruiting, and the sassafras, which turns to soft orange and red in autumn. The elderberry is beautiful with its fragrant white flowers and purple berry clusters. The hazelnut droops its long catkins in early spring and later bears its nuts in oddlyruffled fruit husks. The bright vellow blossoms of the witch hazel come very late in the fall. The dogwood, especially desirable, has white flowers, but berries and twigs of various colorings according to the variety. The stems of the willows, too, add to the winter garden. The viburnums—arrow

wood and the high bush cranberry-are especially good.

Of the medium sized shrubs the coral berry, or Indian currant, is most useful in all landscape work, covering steep banks and mingling its berries in the border. Others are the mapleleaved viburnum and the fragrant sumac. Wild blackberries and raspberries can be used. Chokeberries for a loamy soil (the black and the red planted in contrasting groups), and lead plant for rocky slopes are both valuable for massing. But wild roses should be a chief delight, and there are many varieties. The prairie rose, very hardy, with profuse blossoming and bright red hips, is the best of all.

PLANTING ARRANGEMENTS

For the best effects in the shrub border too much sprinkling in of the different kinds is not good. Better is a massing in groups of a dozen or more of one sort, with three or four plants of unusual character scattered through to accent the different seasons with their blooming. Some attention must be paid to the nature of the ground,

whether it be wet or dry, of light soil or rich, or shady or exposed, as certain shrubs require special conditions. Most of the varieties mentioned will grow in a wide range of soil. As for pruning it should be done not all at once in the spring, but from time to time after each sort has done blooming. Of shrubs that attract wild birds, it is known that the elderberries are used as food by fifty-seven varieties of birds and the dogwood and sumac by forty-seven each. Wild cherries, too, are good for this.

What charming effects can be secured with vines! The sunny porch is shaded, the shady porch is framed in clambering festoons, an unsightly wall transformed into a fall of living green; an airy pergola tosses

ALL-YEAR NATIVE SHRUBS

Silky dogwood (Cornus sericea) - White flowers in June; light green foliage; orange and purple, blue berries in autumn; purple stems

in winter.

Grey stemmed dogwood (C. paniculata)—White flowers in June; dark green foliage; rose to orange, white berries in fall; grey

dark green foliage; rose to orange, white berries in fall; grey stems in winter.

Arrow-wood (Viburnum dentatum)—White flowers in May or June; true green, glossy, dentated leaves; rich purple, bright blue berries in fall; light brown stems in winter.

Sheepberry (Viburnum lentago)—Creamy white flowers in June; light green, glossy leaves; orange, with large blue-black berries in autumn; grey stems in winter.

Highbush cranberry (Viburnum opulus)—White flowers in May and June; red-green leaves; purple and bronze with brilliant scarlet berries in autumn; light stems in winter.

Ninebark (Spiræa opulifolia)—White to cream flowers in June; yellow green foliage, red seed pods in July; yellow in fall; light tan, peeling bark in winter.

PLANTS FOR FLOWERS, FOLIAGE OR FRUIT

Elder (Sambucus Canadensis)—Large lacy umbels of white flowers in July; black berries in August.
Wild roses (Rosa blanda, setigera, etc.)—Pink flowers in May, June or July; red fruits in fall or winter.
Wild crab-apple (Pyrus coronaria)—Pink flowers in early spring.
Redbud (Cercis Canadensis)—Purplish pink flowers in April and May.

Witch-hazel (Hamamelis virginica)—Yellow flowers after leaves have fallen in October, November and December. Foliage yel-

OTHER GOOD PLANTS

Smooth sumac-Good all season for beautiful foliage which becomes brilliant red in autumn. Attractive red seed pods.
Fragrant sumac—Fragrant, very dark green foliage; pea-size red berries in July.

> with sprays. Only vines must be pruned sufficiently to keep the growth from becoming rank. The well-known Virginia Creeper is good for such uses, but is liable to bring insects about the veranda. Virgin's Bower is a dainty native clematis. Bittersweet is a familiar autumn sight climbing fence corners along country roads, hanging thick with clusters of yellow berries, split to show their scarlet centers; but it is not so often used as it should be for covering walls and trellises. The trumpet creeper, a handsome vine, is native as far north as Illinois and Pennsylvania. The moonseed, when brought in from the woods and cultivated, becomes a beautiful climbing vine. Then, too, wild smilaxes, the green brier and the cat brier

respond attractively to cultivation. Among the most vigorous and beautiful of native vines is the wild grape. This should have plenty of room, as it ofter grows to a height of 40'. For a pergola it is very handsome, the long sprays of well shaped and expectant tendrils swaving gracefully from the denser masses.

FLOWER SORTS TO GATHER

As for flowers, here our garden is so different from the old flower bed type that our grandmothers might have asked where the garden was! That is it—it is nowhere, for it is everywhere the whole place is a garden. And instead of herding flowers to some small remote space to which one may occasionally find one's way, we have them banked under or against the shrubbery, running down a hillside, or colonized in an open space beneath the trees, perhaps rioting in a greer and unexpected nook; clumps and masses of wild asters, phlox bluebells, wind flowers or wild lilies. To those who love them these wild flowers have a more delicate and spiritual beauty and grace than the cultivated species

Other native flowers are columbines coreopsis, and, near a waterside, wild blue flag, the handsome hibiscus, bearing flowers 3" or more across (it is useful, too, as a border shrub), and the modest but free blooming little spider-wort. A handsome eastern garden has a walk massed with yellow cone flowers, which are among our commonest wayside blossoms. Goldenrod in its many plumy varieties is effective, but it impoverishes the soil, killing its weaker neighbors, and can be introduced only sparingly. These prairie flowers grow in their native habitat, with a protection of tangled grass roots and decaying vegetation. Wild flowers are best moved in the fall, set out in the afternoon, and shaded a few days



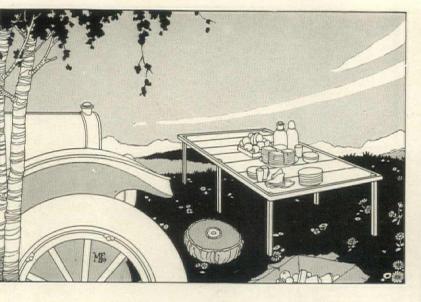
The flowers of the string cherry are followed by fruits beloved by the birds

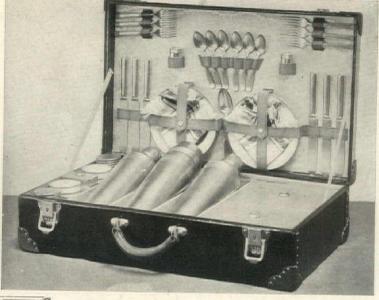


The red berried elder blooms a month or two earlier than the common kind



Pin cherries grow from 20' to 40' high; their flowers come with the leaves



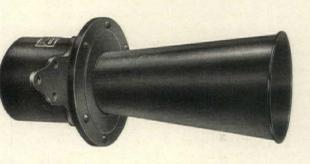


Folded up, this table occupies only 1½" x 9" x 24". Unfolded it is a complete table 2' wide by 4' long, amply strong for luncheon parties. The wood is birch. All metal parts are rust-proofed. \$5

The latest thermos suitcase is a restaurant for six people. The case is wood covered with glazed Therduc. Complete with three bottles, two metal food boxes, sugar box, butter jar and six sets of spoons, forks, knives, etc. \$45

TOUCHES ULTIMATE MOTOR COMFORT OF

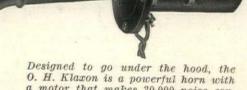
As manufacturers confess their inability to improve the machinery, they have turned their energies to improving the comforts and conveniences of the cars. These are a few of their efforts. For the names of shops address HOUSE & GARDEN. They may be purchased through the HOUSE & GARDEN Shopping Service, 440 Fourth Avenue, New York City



The O. H. Klaxet may be used either outside or in, being driven by motor and making a racket to be heard half a mile away

The binding is soft, white washable rubber, the lights green and amber or orange and amber, making a restful, convenient goggle. 75c.





Designed to go under the hood, the O. H. Klaxon is a powerful horn with a motor that makes 30,000 noise contacts a minute



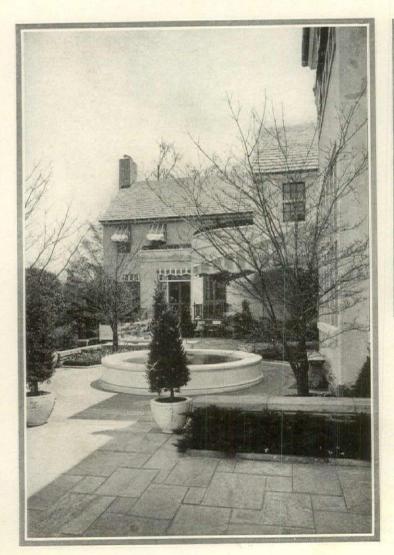
The top tray of this auto wardrobe trunk is so made that it can be left standing. Made of heavy coated black keratol and leather

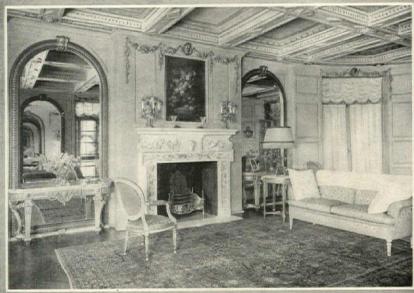


Designed for cars with limited tonneau space, this running board motor restaurant is equipped with two Thermos bottles, food jar, two metal food boxes and six sets of forks, spoons, knives, etc., \$50. For seven persons, \$1.50 extra



The house stands at the top of a slight rise with broad lawns stretching about it on all sides. Dense shrubbery planting and tall trees in the immediate vicinity of the terrace assure privacy. The construction is plaster over stone; the architecture, modern English domestic based on Tudor precedents with a strong Italian feeling incorporated





From a decorative standpoint the music room is an unusual but successful combination of periods. The furnishings are mainly Adam and the room is a mixture of Adam and Italian Renaissance

"BROOKFIELD"

Meritorious For Its Architecture, Its Furnishings and Its Garden Setting

WILSON EYRE & McILVAINE, architects

The east terrace is paved with slabs of native stone. In the middle is a marble basin surrounded by a design in vari-colored tiles.

Striped awnings and box trees lend intimacy



In the library the plaster walls are sand finished, the same tone enriching the moulded plaster ceiling. The curtains are casement cloth. The woodwork is confined to the built-in bookcases and the chimney, the oak being simply paneled with classical pillars at either side.

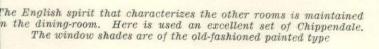
The room may be characterized as having a strong Tudor feeling



In one of the bedrooms is a set of black and gold lacquer decorated with Chinese designs, while the chair is Queen Anne, the lines of the bed are unusual but suitable for that type of decoration

COUNTRY HOUSE

The Residence of Jay Cooke III, Esq., at Chestnut Hill, Philadelphia





IN 1492 Columbus discovered America ered America. About 400

BACK BY THE GASOLINE TRAIL

IN general, you can me ure the standard of a tion's civilization by what

years later Americans discovered the country. It came about somewhat in this fashion:
Groups of idealistic young men, many of them still sporting their senior honors, began to burn with a great zeal for social uplift. They saw the crowded cities, and wept. They saw the shoddy output of American factories and American factory life, and set themselves to right matters. The road to salvation, they pointed out, led back to the land. Having found that road, they themselves walked upon it, as an example to the nation. In various sections of the country sprang up communities, many of them co-operative and communistic, devoted to reclamation of farm lands,

the revival of handicraft and the intensive simple life.

The papers were full of it at the time. Likewise was the market flooded with all manner of handmade articles—rag rugs, bayberry dips, Colonial chairs and pottery. . . . Then, somehow, the dips, Colonial chairs and pottery. . . .

movement petered out.

THE town of M___ - in the Connecticut Valley was the center of just such a community. Now M—— is no different from a dozen other New England villages. It consists of one main street and a sprouting of muddy side lanes. On the common stand the two churches, the postoffice, the general store, the hotel and the town hall. The houses are all painted white with green shutters. The inhabitants are either very old or very young, for the youths seek the city as soon as they reach the earning age. The only organization, apart from the Dorcas Circle and the Grange, are a Thief Detecting Society, with a history as ancient and honorable as the Ancient and Honorable Artillery of Boston -and as useless; and a safe and sane Shakespeare Club which meets once a month to read aloud from a Bowlderized edition, the men of the class re-reading the passages out of an unexpurgated copy the next morning in the back room of Bart Simm's general

store. It goes without saying that life in M—— is truly rural—to the *nth*

degree of x.

To this town came a band of zealous young men. They bore the torch of the great movement. And they were sincere, do not be mistaken, and hardworking and self-sacrificing. Land was bought, a co-operative mill erected and the community started in on its hand-made life. The natives viewed these newcomers with suspicion, but when reporters began traveling all the way from the city to write up the movement, they were won over. M——, which had not been on the map since the Indians held a massacring festival there several generations back, blossomed in this effulgence of newspaper publicity. Moreover, the movement showed progress; newcomers joined the band; the natives lent their aid. It looked as though the world was going to be saved. America stood a good chance of having her cities depopulated and her factory problems solved.

To-day the movement is rarely mentioned in M-The natives dismiss it with few words. In a barn down the brook the hand looms are falling to bits and the hand presses and

the bayberry dip moulds and the pot-ters' wheels are all rusting away. Some of the men are left; they have gotten their feet on the earth and they form the nucleus

of a delightful intellectual circle.

The movement failed, failed as it did in a dozen such centers. And yet, despite the failure of these zealous backers to the land, America has seen a steady increase in country living and farm reclamation during the past decade. The problem the dreamers were helpless to solve is being gradually solved to-day. What they tried to do by hand is being accomplished by machine. Modernity triumphed over mediævalism.

Salvation still lies along the road that leads back to the land, but the men and women are being led there by the automobile. In short, it is the Gasoline Trail that leads back to the land, for the automobile has made country living possible for the city man, and he delights in his new-found existence.

people will put up with on the road. And you can also trace trend of a nation's life by following traffic to its destination. It Korean ox team lumbering along through the slough of mud as striking an epitome of Korea as a twin-six bowling down macadam stretch is of America. The Korean team goes to farmhouse that is about as tumbledown as the road and as farmhouse that is about as tumbledown as the road and as of date as the oxen; and the twin-six turns into a place that relatively as modern as the macadam it has spun upon. The Gasoline Trail goes as far back to the land as the roa

will allow, and every step of its way is marked with progre At first it boomed the suburbs. To-day it is booming the count the better roads stretching out farther and farther from the contract At present no less than 6,000,000 families live on farms in the

country, and the number is increasing.

There are to-day more gentlemen farmers than a decade a more old country places being renovated and rebuilt to suit mode living, more country villages taking a fresh lease on life became of the influx of up-to-date ambitions and wide-awake views brough

them by new inhabitants from the city. No one dares prophesy what the end will be. Doubtless price of cars will come down even lower than the reachable pri of to-day. Doubtless some modern magician will find a cheap st stitute for gasoline. In that day our 2,500,000 automobile own will leap to 5,000,000. While this will not clear the slums solve factory conditions, it will mean a greater migration count ward. City folk will become convinced that fresh air is bet to breathe than smoke and grime, silence better than racket, fr vegetables better than canned, flowers from one's own gard more pleasing than flowers from a corner florist. Once convine of this, the joys of a handmade country life will seize them, a what the dreamers of the 90's strove to do will be accomplish

in good time. Already the light is up the horizon; but it is the glow fr electric headlights. Already the hos heard moving; but it is the hum fr The old or countless motors. changes, yielding place to the new, a Ford reveals himself in many ways.

The only benefit it derived fr the invasion of the Back-to-the-Land was the publicity, the tiny circle of tellectuals and a wealth of wisdom an the inability of some folks to pay th bills. M- is scarcely any bet to-day for the community having lithere. But Mis better for men of the town who have bought au mobiles, for the farmers thereabo who have aspired to flivvers and for tides of automobile traffic that p back and forth along the one lo house-lined Main Street. The autor bile has made M—— "loosen u bile has made Mlive down the parsimonious reputat of its New England forefathers. has made the county officials fix roads and keep them fixed, and it brought a host of people to the to who never before heard of the pla Ten years from now the youths be content to remain in town. Alrea

when you talk to the natives, you do not hear them complain about how hard it is to live up there away from all the city and convenience. For this the automobile does. For city for it makes country living possible and for country folks its ma

played al fresco (from the unexpurgated) by otherwise staid theatre-abhorring natives. This spring the Thief Detecting Soc

aspired to—and accomplished—a seven course dinner, served the way banquets are at the Waldorf. The latest dispatch bri

the news that the town fathers have clubbed together and pechased a fire engine—not one of yer old horse-drawn ve-hick by Heck, but a brand-new, sure-enough, honest-to-goodness at

country living livable. Life in M—— is beginning to look up with a vengeance. broke out into a town masque last year, and Shakespeare is be

mo-bile fire in-gine!

BUT to return to M-HERMITAG Oh, for a country place I know Where elms stand in a windy row Where larches frame the crimson sun And maples turn vermilion And branchy oaks stand wide and still Each like a green, inverted hill. There when I'd dreamed a day or two I'd have a room made neat for you-



For trees, they are such lonesome things With all their leaves and whisperings! HARRY KEMP.



on Eyre & McIlvaine, architects

A GARDEN THRESHOLD

It is best to come into a garden by slow degrees. The grilled gate, the low steps, the shadowed path—by such stages is the beauty reached. This is the progress of one who visits the garden that surrounds the residence of Jay Cook III, Esq., at Chestnut Hill, Philadelphia



In the fully open blooms of Lilium tigrinum the petals curl back until they almost touch the base of the flower



L. Canadense, var. flavum, is an easy-to-grow yellow



A transparent carmine red, seeming to be laid ove white, characterizes the Turk's cap L. speciosum var. rubrum

CONSIDERING THE LILIES

The Flower of a Hundred Sorts Which Always Come True A Score of Good Varieties for the Garden

GRACE TABOR

NOTWITHSTANDING all its subdivisions and subgenera, the lily has one striking peculiarity: it defies hybridization—or it has seemed to, thus far. All the lilies in the world appear to have been created by divine fiat, and finished. And man's efforts and interferences are, in their case, of no avail in changing them.

This is not to say that no hybrids have ever been grown. There have been a great many, as a matter of fact, for growers are by no means satisfied with what Nature has done for us in the way of lilies, any more than they are satisfied with what she has

The "gold banded lily of Japan" is white with golden bands, and studded with purple spots. The flowers are 6" or 8" across

done in the way of other plants, wide world over. The hundred-odd species and varieties which she has furnished are regarded

by man as only a good beginning.

But though crossing has been accomplished hundreds of times, and seed has developed from such crossings which, being sown, has duly sprouted and produced tiny lily plants unlike either of the parents in appearance and unlike each other, blossoming time brings only the same old flowers. Verily it is a mystery.

Only one in all the long list of lilies is suspected of being a hybrid; and that is suspected only because it is not found wild anywhere in the world, while all the others are. Not being able to locate the place of its nativity, botanists are driven to the suspicion that this old Nankeen lily—Lilium testaceum—may be a cross between the true Madonna lily of southern Europe and Lilium Chalcedonicum of Greece.

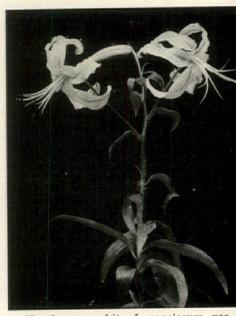
DIFFERENT TRUE FORMS

Most familiar of all forms, because we all know it in the common tiger lily of old dooryards, is the "Turk's cap"—literally just that. In this form the petals, or perianth segments, as they call them in lilies, are curved or rolled back until their tips almost touch the base of the flower where it joins the stem. In some species the evenness of this rolling back or recurving is quite remarkable, while in others it is noticeably irregular. The tiger lily is one of the latter, its segments frequently showing a twist as well as the recurve.

The plant which everyone knows as the Easter lily in this part of the world, but

which is not the true Madonna lily at is probably the next best known lily; am may stand as the representative of the nation form—the funnel or trumpet shaped. This the segments curve outward from rather long tube of the flower, but do recurve so decidedly, though in some to do a little. The flowers, however, are trinctly like a trumpet when analyzed.

The two remaining forms are practice only one, the difference being in the way flowers hang on their stems rather than their shape. Spreading and but very slight outward curving, their segments are form



Nearly pure white, L. speciosum, var. a bum, is a strikingly handsome lily, thoug less thrifty than the red form

make them look like dainty bells in their tlines; but one group is upstanding, rming natural cups or chalices, while e other droops and nods and sways for the world as if it were actually a set elfin chimes. So the first is called the p or chalice form, while the other is propriately known as bell shaped.

THE COLORS OF LILIES

Thus we come to color. Well, there e just four distinct colors, including nite, in the lily tribe, though there are veral gradations which some list as parate colors. There are three degrees shades of yellow, and there are red, k and white. Some of the yellows are le; some lean so to red that orangearlet results; the reds are all scarlets ve in the speciosum and Japonicum ains; and the pinks are all rosy or with endency toward mauve rather than the mon shade. Thus there are really two tinct reds to be considered: the scarlet, the American Beauty rose or Burndy red. All of the pinks are related the latter, and are hideously inharnious with the former. So immedily it is apparent that these speciosum Melpomene lilies must never be asriated with any but the white lilies or ers of their own kind; for there are no ors that clash more unpleasantly than these two separate reds.

At last we come to the final division of lily family—the easy-to-grow and the easy-to-grow. With the former before and the latter eliminated altogether, you then ready to make your own especial ection, fairly forewarned.

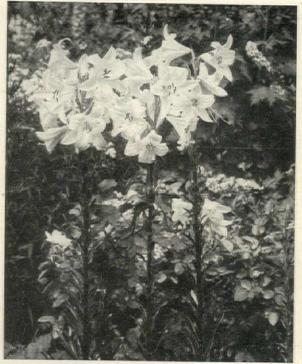
EASY SORTS TO GROW

Right at the beginning we must put ium elegans, from Japan. This may be ssed as orange, though it is not always t that, being what growers call "vari-e." It is an erect or chalice lily, with eral varieties. The one called *fulgens* is lly very splendid, a deep orange-red. other is atrosanguinium, darker and a e, deep, rich red—of the scarlet alliance, ays remember. Variety alutaceum is a d clear yellow, while bicolor is yellow at center and red farther out. Any one or of these are practically as easy to grow grass; you can hardly fail with them. Running a close second to Lilium elegans its varieties is the Chinese Lilium con-

or, which is bright scarlet, and its va-



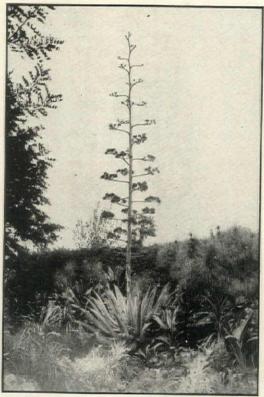
he rather insignificant flowers are borne n upward curving clusters at the ends of horizontal, leafless stems



The Madonna lily is superb in color and form. Take special pains to keep it free from disease after growth starts

riety partheneion, which is a clear, true yellow. Confine yourself to one or the other of these species. There is not sufficient difference between them to warrant having both in one garden.

In the rose-red division Lilium speciosum, another from Japan, is supreme, and every garden ought to have a clump or mass of these, planted where you cannot see them and the scarlet lilies at the same time. For myself, I like them better than I do the more brilliant and glaring reds. Lilium speciosum, var. rubrum, is said to be more hardy and thrifty than the type (L. specio-



A single tall stalk rises from the basal leaves. This Agave werklei is a "century plant" and dies after blooming

sum), but I have found them both perfectly satisfactory and no one will have any difficulty with either, I am sure. The type is almost white, overlaid with a delicate pink flush and dotted with rich red spots. It is a magnificent flower, indeed. The variety (rubrum) is a transparent carmine-red which also has the effect of being laid over white.

The darkest of all lilies is L. Brownii, held by some to be not a distinct species, but only a variety of L. Japonicum, being native to the same parts of Japan. Happily this is an "easy-to-grow" and especially recommended to beginners by the authorities. It is not as showy as some, but nevertheless is very attractive, for the inside is white, while outside it is deep red-purple, and the flowers are large and fine. It belongs to the trumpet-shaped class, as do all of the lily family that are white on the inside.

To this class the Easter lily of to-day belongs-Lilium longiflorum or L. Harrisii, according to whether the bulbs have been grown in Japan or Bermuda. The flowers of this are much longer than those of any other white lily that will grow in the garden, and it is as fine a garden lily as it is for pots, forced at Easter time—if you get healthy bulbs. To do this, buy L. longiflorum rather than

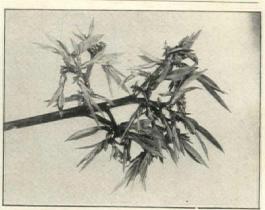
the bulbs of L. Harisii, for the Japan grown bulbs are not likely to be diseased, while those from Bermuda are almost sure to be.

DISEASE PREVENTION

This Easter lily of to-day is not the true Madonna lily. This is seldom seen now, for its susceptibility to disease has made it unpopular. Then, too, L. longiflorum forces much more easily, and everyone seems to think an Easter lily must be a lily in a pot in the house at Easter time.

As far as the disease is concerned, it is with a lily just as it is with any other plant; there is absolutely no use in trying to cure a disease, after it has once taken hold. The only cure for plant diseases is prevention; therefore, to grow Annunciation lilies that are healthy and free from disease they must be kept healthy and free from it, from the instant they stick their heads above ground, by early and frequent sprayings with Bordeaux mixture. This gives the spores which cause the disease no opportunity to germinate, and this is absolutely the only way to control the situation.

(Continued on page 52)



Bulblets form on the flower stems and, dropping to the ground, take root and spring up after the parent dies

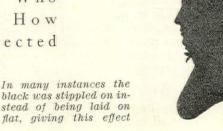
THE AGAVE - A STUDY IN SELF SOWING

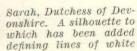
SILHOUETTES OLD AND NEW

Which Answers the Question of Who was Silhouette and Why and How Silhouettes were Made and Collected

GARDNER TEALL

black was stippled on in-stead of being laid on flat, giving this effect





EARLY a century and a half ago Johann Kaspar Lavater, of Zurich, wrote his famous work on physi-ognomy, laying great stress therein on the power of the outline of the human profile to express traits of character. That was before the silhouette had come to be known by this name. Then it was generally called a shade. "What," wrote Lavater, "is more imperfect than a portrait of the human figure drawn after the shade! And yet what truth does not this portrait possess! This spring, so scanty, is for that reason the more pure."

The silhouette offers a delightful field for the collector to browse in. Not only is the silhouette portrait, genre-subject or landscape, artistically interesting, but silhouettes are not difficult to acquire as compared with many other objects that attract the col-lector's fancy. Of course genuine original examples of the work of the most noted silhouettists have been in demand these many years past, and the prices for such specimens is higher in consequence than for unsigned or unknown silhouettes. However, a very interesting plan is to combine the new with the old, to collect modern silhouettes as well as antique ones, for it is well to remember that modern silhouettists display a skill in this artistic craft that does not suffer in comparison with the earlier silhouette cutters. It is an art that has endured.

As to the origin of the silhouette, tradition has it that Korinthea, daughter of Dibutades, who lived about 600 B. C., found the affections of her lover waning and realized that she would soon be left alone. In her sorrow she traced the outline of his shadow against the white marble wall one day as he sat by her side. Thus, Pliny tells us, she sought ever to hold his image before her sight. Poets and painters alike have immortalized the pretty story. Benjamin West, Mulready, Le Brun and many others have employed the subject in their pictures, so there is no lack of evidence.

WHO WAS SILHOUETTE?

For a long time silhouettes were, as has already been noted, referred to as shades. Often, too, they were called shadowgraphs.

Just how the

name silhouette came to be attached to shadow pictures is interesting to note. Etienne de Silhouette (sometimes the name is spelled Sihouette, with-out the l) was a French Minister of State who was born in 1706 and died in



For some time German and Italian artists have been using silhouette drawings for illustrations. Little Red Riding Hood, however, is not intended for a Nubian



A German silhouette illustration of Jordine and Joringel, by D. Polster, showing the delicacy of effect attained by fine lines and scroll-like curves on a white ground

1767. He was secretary to the De d'Orleans and was one of the Cor missioners appointed to settle t Franco-British frontiers in Acadia 1749. That was before his appoin ment as Contrôleur General, whi was made in 1757 in the face of gre opposition, as his economical train were not relished by the extravaga nobility. To Madame de Pompadou I believe, the credit should be giv for obtaining the appointment. Son day, perhaps, the world will come understand how the Pompadour sav

France as often as popularly she thought to have ruined it. In the fi twenty-four hours of Silhouette's minist economies to the extent of seventy-two m lion francs were effected, it is said. Befolong those opposed to him denounced lives a said of the said of the said. economies bitterly. He was called the Mis

of France, Prince of Penury, and so on. However, he persisted. As a result S houette, as a name, came to be applied i a time to all cheap things. Etienne de S houette died in 1767, but the memory of leconomies outlasted his policies and four his name a byword abroad as well as home. When the fashion for cutting po trait shades was at its height in Engla about 1825, the art was given the name the French Minister who had died or fifty years before! And the name has clu

THE EARLY SILHOUETTISTS

In those days the portrait painters (the is, the less well known ones, not the m ters) found the profile shade portraits skilfully cut were hurting their own bu ness by reason of the very cheap pri which even the best of these new-art p ducers charged. I venture to say that p fessional jealousy lay at the bottom of taching Etienne de Silhouette's name something he had nothing to do with!

The art of the silhouette was by no me a new thing to England in 1825. As back as the time of William and Mary M Elizabeth Pyberg did silhouette portraits the King and Queen. With Korinthea shares the honors of feminine fostering the art, and so do the later followers, M Opie (wife of the celebrated painter), M Leigh Hunt, M

na Brandes (H lin, 1765), M Beetham (Lond 1785), the Emp Maria Theresa, Princess Elizab of Engla (daughter George the Thir Eleanor Park C tis (step-daugh of George Wa ington), N



A country carnival, after the German fashion, vividly portrayed in solid shadowgraph by Ferdinand Staeger

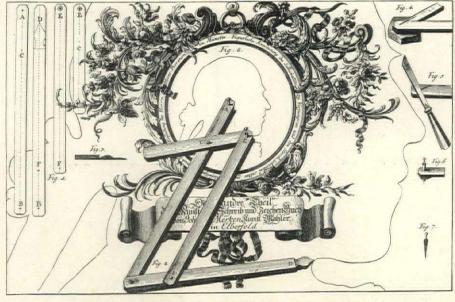
ightfoot (Liverpool 785) and the famous merican artist, Mrs. Paence Lovell Wright, who as born in 1725 and lived a Bordentown, New Jerey, afterwards in London. Of her work Horace Waltole spoke in highest praise.

Probably the heyday of the art of the silhouette in ingland was marked by the ork of John Miers (1792-827), of Charles of Rosenterg and of Mrs. Beetham. One of the silhouettes are cut out of black paper and pasted on white card. Others were outlined on ard, ivory, plaster, bone, lk, glass, metal, etc., and

lled in with black or ocsionally gold, silver and flat color. Some the silhouettes were small and others most microscopic. Again, a fashion obined with early American silhouette maks of cutting the shade portrait out of the enter of a white card and then backing the ard with black cloth or paper which showed arough the opening and thus formed the lhouette. Silhouettes of this sort were ractically unknown in England, however. nother mode of making silhouettes was paint them with a mixture concocted of ine soot and beer on the inside of convex lass surfaces backed with ivory colored laster. These, of course, were very durable. In Germany and in other countries menanical devices were invented to facilitate ne making of silhouettes. When such manines were employed the sitters would be laced so that their shadows would fall, life ze, upon convenient screens. The outnes were then drawn. Afterwards, by neans of a reducing pantograph, the large



The silhouette has found place in Japanese art, being used effectively in two values or shades of intensity



By means of a reducing pantograph the large shadow outline was brought down to miniature



An old woodcut showing the first step in making the silhouette. Some of the artists turned them out at the rate of two a minute

shadow picture was brought down to miniature and finally cut out or filled in with black pigment, as the artist elected.

Probably cutting out was less common a mode of procedure than filling in with paint, judging from the various antique examples that have been handed down to us. One of the best known of these cutters was William James, "Master Hubbard," an English boy who at the age of thirteen began the art, exhibiting extraordinary skill. At seventeen he came to America and settled in Boston, finally abandoning silhouette cutting to take up portrait painting, influenced by Gilbert Stuart. Master Hubbard's fee for cutting a portrait silhouette was fifty cents. The time he took to make one was seldom over half a minute! Charles Peale Polk, nephew of Charles Wilson Peale, in Philadelphia; Doolittle, Dewey, Master Hanks, Griffing, William Bache and William King in New England; J. F. Vallée and S. Folwell in Washington, were other famous silhouettists in America. On the Bache silhouettes one generally finds embossed



The smallest on record—exact size. A bull fight cut by a Mexican Indian. Silhouetting is a favorite pastime of those Indians

the words "Bache's Patent." Bache did silhouettes of many Salem, Massachusetts, worthies. Indeed, Salem seems to have
had a hankering for silhouettes, and silhouette exhibitions were held there in various years from 1791 to
1801. Doyle, who did a
silhouette of Samuel Foster
of Boston Tea Party fame,
was Boston's only local silhouettist of note.

LATER SILHOUETTISTS

Of all silhouette artists, however, Auguste Eduart, a Frenchman born in 1788 who sought refuge in London in 1815 after the Napoleonic disasters, was the most popular. Eduart earned a living teaching

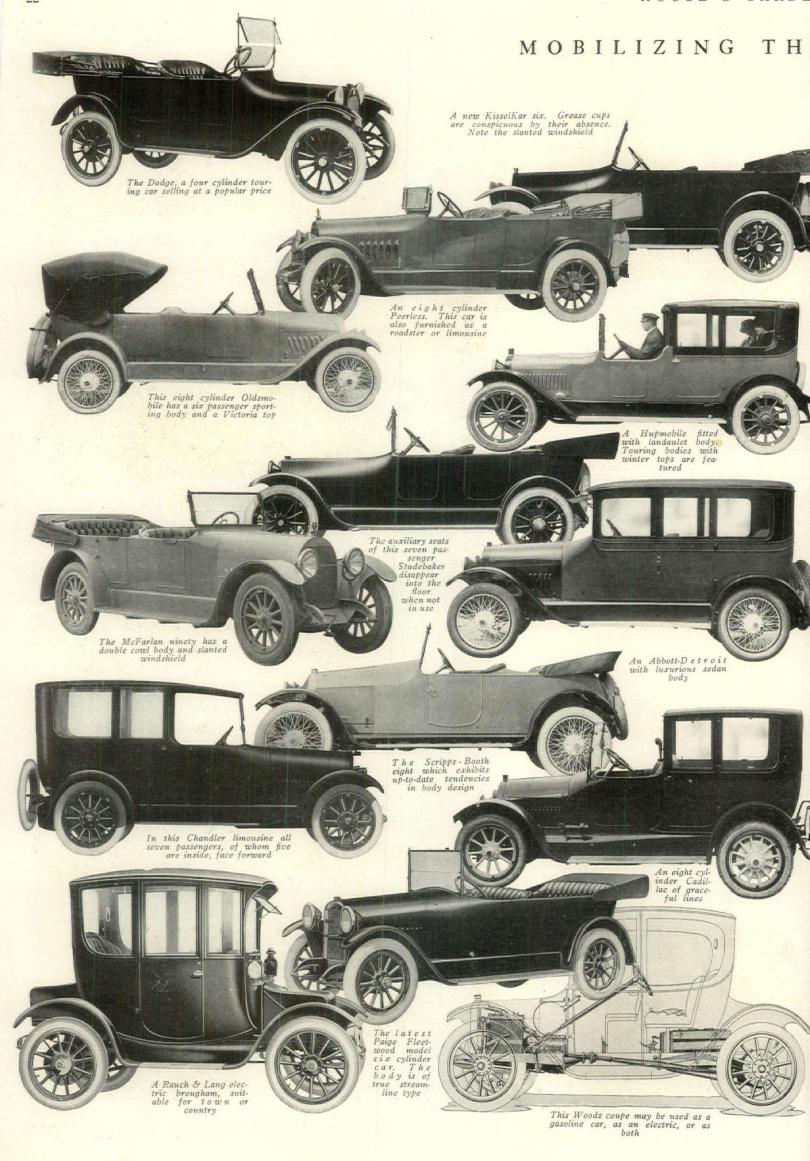
French in London until accident disclosed to him his ability to make silhouettes. After the death of his wife in 1825 he set to work making these shadow pictures, and his skill and success were extraordinary. For a full-length he charged five shillings, for the portrait of a child under eight, three shillings sixpence, and for a bust silhouette two-and-six. In 1839 he came to America and did silhouettes of all the notables of the day. Four years before he had published his "A Treatise on Silhouette Likenesses," a rare volume and one eagerly sought today by collectors.

William Henry Brown, who was born in Charleston, South Carolina, in 1808 and died in 1883, was the last of the old school of American silhouettists. He gave up the art in 1859. Brown was a quicker cutter than Eduart. From one to five minutes was the time he gave to a silhouette. His "Portrait Gallery of Distinguished American Citizens," illustrated in silhouette, was

(Continued on page 50)



Reproduced from an original by Auguste Eduart, made in New Orleans in 1844. Note the background introduced



ATEST MOTORS

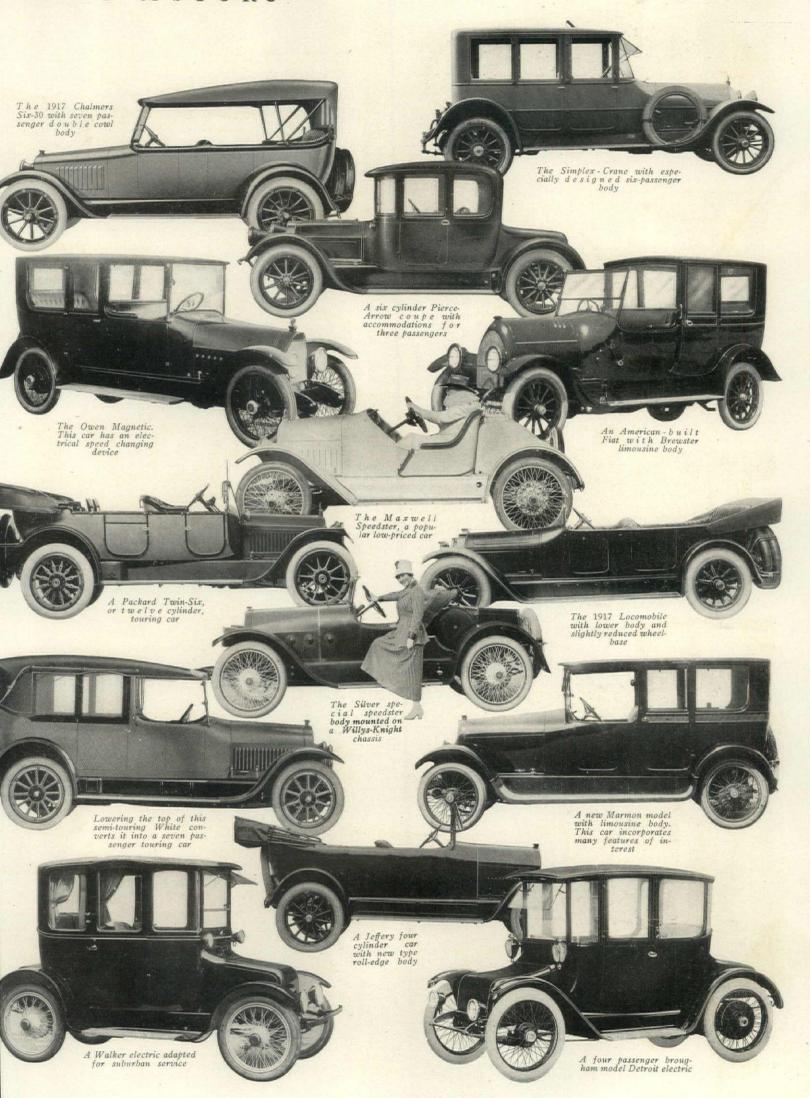




Photo by Jackson & Whitman J. R. Pope, architect On this Baltimore estate the back of the garage was used for the wall of a formal garden, an excellent idea where space permits



B. V. White, architect
Considering the size of this two-car concrete garage, the single door is too small for convenience. Provision for light is goo

CONSTRUCTING THE PRIVATE GARAGE

Where to Put It — How to Make It — How to Tie It Up with Your House and Grounds

MORRIS A. HALL

GENERALLY speaking, the person who builds a garage expects to get more motoring with greater comfort and usually for less money. By having the car closer at hand, more accessible, it is more usable and as a result more used. If nothing else did, this would justify the relatively small expense of building and maintaining one's own garage on the property.

own garage on the property.

In building such a place the following items should have serious consideration: Floor plans and number of floors, the relation of the layout to the ground levels; materials, lighting (natural and artificial), ventilation, heating, facilities for doing work, equipment, supply of fuels, etc., and finally the relation of the garage to the other buildings that are near it.

The latter may be considered briefly. If the other buildings are all of a certain shape with a fixed relation of height to width and length, a certain kind of material for the foundations, another certain kind for the side walls, a third for the roof, etc., in short, if all the other buildings are in harmony and each constitutes one part of the general scheme, the garage should be designed and built so as to conform with that scheme. This might influence the floor plan, relation to ground levels, and surely would influence the materials.

FIGURING THE SIZE

Admitting that is not the usual case, the size and floor plan should be taken up first. In most instances the rectangular shape is best and most economical, with a length about 1.6 times the width, the latter being fixed by the size of the car, and the needed working space on the sides. Thus, if the owner finds his car is 5' 8" wide and feels sure that 3' 2" on each side is plenty of working space, this gives an inside width of 12'. Then the best length would be about 1.6 times this or 19' 3". Both these are inside dimensions so the outside sizes would be greater, varying with the materials used.

Unless a big turning space is available,

the garage should have a turntable, local preferably near the door and directly the middle of the width. Then the washenches, cupboards for tools and supplete, should be at the farther end. To owner's door should be a small one separate from the main garage doors. Clato this, preferably on either side of it, should be the washstand and the clothes lock Equally close on the other side should the source of gasoline supply, water soil. This arrangement makes it poss for the owner to enter, put on his motor togs, fill all oil and fuel tanks and the ractor without too much walking around.

Of course, it goes without saying the gasoline and oil tanks should be of safety type, buried in the ground out of the garage building and as far away possible. All that is inside the garage the connecting pipe and outlet faucet, perhaps the quantity gauge

perhaps the quantity gauge.

If the building is long enough and we enough to warrant it, a low second stops



© E. F. Hodgson Co.

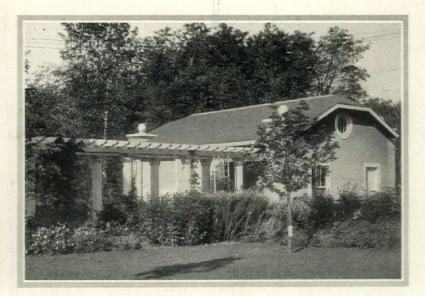
The ready-to-put-up garage is practical and inexpensive. Surrounded with shrubbery it can be made a factor in the garden



Though of unusual architecture, the doors of this garage are sufficient. The lighting, however, is inadequate for work inside



ak Smart, architect
An excellent type combining garage and chauffeur's quarters. Wide
doors and drives make approach and exit easy and convenient



An admirable effect can be had by connecting the house and garage by a pergola, thus making the garage seem a part of the house

half story is desirable, for it makes a ne place to store a winter body in sumer, a touring body in winter, or either ne when overhauling the chassis. This red not be finished off, except when it is esired to make provision for the chauftur, in which case a full second story, enterly finished off, and with bathroom, is esirable.

The ground levels have an influence only hen building both house and garage simulmeously. In some cases it is possible to ake good use of a hilly piece of ground building the garage as part of the basement of the house. Very often a lot which high in the front and low at the rearnds itself very well to this economical ombination.

Construction Materials

As to materials, it should be borne in ind that a fireproof building is doubly derable, from the standpoint of protecting to investment in both car and building to be investment in both car and building to be point of view of lowered insurance. With this thought fixed, cement stucco on follow tile, or cement plaster on metal lath, all stone, all brick, or all concrete in the form of blocks are the most desirable. In taking the choice, the car owner will be overned by the material used for the house and other buildings, the amount which he

feels he can spend, the time available for building, and other similar items. Other things being equal, the writer favors the first two.

In the matter of light, practically all rage builders go wrong. This is the one garage builders go wrong. thing which is needed most in a garage, particularly if the owner plans to do any work on the car himself, or have any done. And yet nine garages out of ten have insufficient lighting, both natural and artificial. In an investigation made by the writer at one time in twenty-five garages visited one had good light and four were classified as fair. The balance were either bad or very bad, and these included a number of expensive two-car garages. Only one had five windows, five had four windows, five had three, nine had two, four had only one and one had no windows at all!

A garage 12' 6" by 20' outside, as mentioned previously, should have at least three windows on each side, two in the back and two in the front door, a total of ten. And where built low it should have a skylight in addition, or if the roof is sloping two skylights. And the artificial lighting provision should be just as good, for there are many dull holidays and Sundays when the mechanically inclined man will want to work off his surplus energy repairing, adjusting or cleaning the car.

Ventilation is important to keep the gar-

age smelling sweet and clean, and also to rid it of the dangerous fumes from fuel and oils. The latter it must be remembered are heavy, and the ventilation for these should be low, preferably at the floor level. Other ventilation should be high, preferably at or in the roof construction.

HEATING THE GARAGE

Heating is a problem all by itself, complicated by the highly inflammable nature of the gasoline, oils, oily waste, etc. This calls for heating in which there is no open flame, barring all stoves or open heaters. When near the house, the steam or hot water system can be extended to it readily, but at a distance a separate plant is needed. On many large suburban places the greenhouse and garage can be combined very effectively, both as to building cost and utility on the one hand, and appearance on the other. In a case of this sort the copious supply of heat provided for the greenhouse takes care of all need for heat in the garage. In this connection a word of caution: do not put the greenhouse on top of the garage as exhaust gases from the motor will kill the majority of house plants.

It is well to build in an overhead beam of wood or metal to form the basis for a hoist, needed for taking off a body, taking out an engine or any similar heavy work.

(Continued on page 54)



Where the slope of land or type of architecture permits, the garage can be made an integral part of the house itself



ourtesy of C. D. Pruden Co.

Painted to match the house or surrounding structural elements,
the ready-built garage fits into the city property successfully

NEXT TO THE PONY-THE PLAYHOUSE

When you were a youngster did you want a pony? And if you couldn't have a pony didn't you like a play-house best? Well, here are the playhouses. They can be bought through the HOUSE & GARDEN Shopping Service, 440 Fourth Avenue, New York. The names of the manufacturers will be furnished by the Information Service.



© E. F. Hodgson Co.

An attractive little house up whose trellises vines can be trained. It is made of cedar, and has a 6' x 7' room and 3' x 6' porch with two seats



© E. F. Hodgson Co.

Somewhat larger than its adjoining neighbor, this one measures 8' x 8' inside, with a 4' x 8' porch. The general plan is quite similar



© E. F. Hodgson Co.

This screened playhouse would also be
good for the children's
sand pile



Photo by Beals

A variation of the Indian wigwam, of poles covered with birchbark, always appeals to the youngsters



W. D. Brincklee, architec The addition of a st and flue makes playhouse available winter

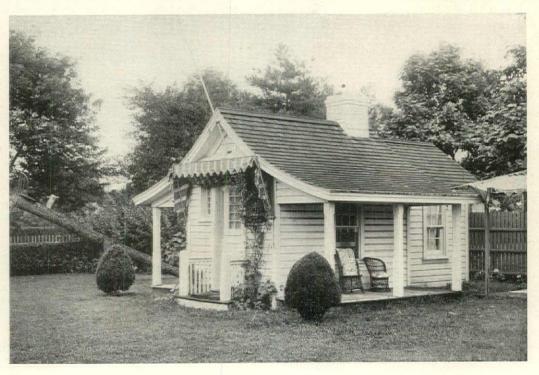


Photo by Beals
A type of playho
whose greater pre
sions are justified
its increased comp

THE GASOLENE FARM

and the Really Big Work on It Which he Automobile is Doing Today

F. F. ROCKWELL

Photographs by Brown Bros.

TWO of the most important phases of rural development during the last ecade or so have been the increase in size the "small" farm, and the increase, in any sections of the country, of the num-er of small "farms" which are used as welling places and run as side issues to ome other profession or occupation of the vner. Although these two conditions seem mewhat paradoxical at first glance, they e not so in reality; the first illustrates e fact which hundreds of government inestigations have proved to be true, namely, at the large farm as a business proposion is superior to the small farm; and the cond the equally important fact that the ofessional, business or skilled workman ho can use his spare hours during the mmer season to produce a large part of s food supply possesses the equivalent of very substantial increase in salary.

Just what all this has to do with the comg of the automobile to the farm may not
first be apparent, but there is a very inmate connection in both cases. It is a
mnection much deeper and also much
ss spectacular than commonly supposed.
veryone has seen pictures of the practil, low-priced car backed up to the wood
le, sawing wood, or hitched by some clever
rangement to a mowing-machine, with
mments on what the automobile is being
ade to do on the farm. But the really
g work which the motor car is doing for
e farm does not so lend itself to striking
ctures. It has passed the unique stage.

THE REAL WORK OF THE FARM CAR

To anyone who has been in close touch ith the practical side of country life, hower, it must have forcibly presented it-



Not only has the automobile lightened the actual labor of farm life; it has made possible the marketing of produce in from one-fifth to one-half of the time formerly required

self. Marketing of products in one-fifth to one-half the time formerly required; a much greater range of markets available; rapid transit for the manager or supervisor of work on the big farm or the "chain" farm; mobility of labor and materials; the saving of time formerly wasted in getting to and from work for the spare time small farmer—these are the things of tremendous importance which the automobile is doing for the farm, so far as the economic side of the question is concerned. One hears and sees little about them; but in the end they will prove of hardly less influence than the development of the steam locomotive. They are quietly but rapidly changing the whole status of a large part of American agricultural life.

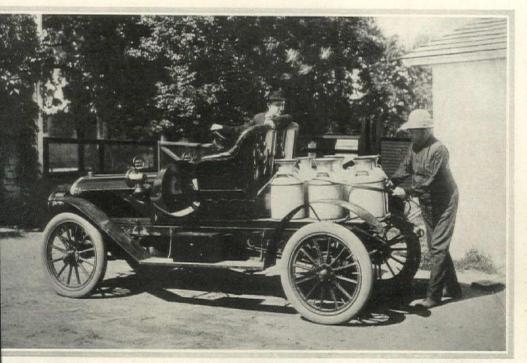
Important as the economic aspects are, or may become, however, it is doubtful if they outweigh the tremendous social advantages which the popular priced car is bring-

ing, and has in many sections already largely brought, to farm dwellers, both those who dwell for a living and those who want but a home in the fresh air and an occasional fresh salad. You will probably have a chance, some time this month or next, to attend a country fair. Just glance observingly over the arrays of autos you will see there, of all kinds, colors, calibers and previous conditions of servitude. But each one means that for its owner, at least, the greatest bugbear, drawback and obstacle to real country life-isolation-has been to a very great extent removed. The auto is completing the function of the telephone in bringing civilization out to the soil, and making possible that intercommunication without which efficient rural organization would be an impossible task.

To the farmer with a car, distances up to five or six miles are within as easy range as one to two miles formerly were by horse travel. The rural church, the school, the grange, the institute, the field demonstration, fairs and exhibits, visits to well-managed farms, buying and selling organizations—all these agencies for better farming and happier living are not only made more accessible, but they themselves can be greatly improved because serving so much larger units of territory and consequently being able to command the services of much higher priced and more skilled men.

An Essential Necessity

Summed up briefly, the position of the motor car on the farm has changed during the last few years from that of a luxury to that of an essential necessity. Just as the progressive farmer has had to utilize telephone service or see his share of local sales captured by his neighbor who did, or find that he was losing the best parts of his possible profits by not being able to keep in touch with the market, so competition is making a necessity of automobile transportation, particularly for perishable products, frequent deliveries and long hauls. Several large concerns are now laying their plans on the assumption that eventually practically every farmer will have a car.



The modern dairy farmer straps his milk cans on the back of his car and makes the six-mile trip to the railroad or milk depot comfortably, returning much earlier than in the horse days



Every farm that is worthy of the name entails a considerable amount of hauling and heavy cartage. Here is where the motor truck comes in because of its speed, power and capacity

But how about the individual problems of the man who wants a car for his place, whether it be an estate, a real farm, or a small place? What are the specific things he can expect of it? What type of car is best? What equipment necessary? What is the wear and tear expense?

The answers to all these questions must be, in the nature of the case, more or less conditional. But the man without previous experience who is thinking of buying a utility car may get from them some points that will save him trouble, time and money.

To take the first question first, what are the things one can do with a car on the farm? Undoubtedly where the car saves most time is in getting the product to market or shipping point, and for this purpose some form of truck is generally used, although there are hundreds of small places whose chief products are eggs, berries or some vegetable specialty, where the back part of the tonneau serves as the truck and does for hauling back the small bulk of supplies needed, such as two or three bags of grain at a time. With a heavy canvas so formed that it can be quickly thrown over the back seat and floor and "stay put," this is a perfectly feasible plan if a little care is used in loading and unloading and not too much weight put on.

LIGHT AND HEAVY TRUCKS

When it comes to the regulation truck, there are all sorts, many of them especially designed for different kinds of work. There is not space here to go into great detail, but experience has proved in many cases that it is more economical both in original outlay and in upkeep and running expenses not to get too heavy a truck. words, select your machine to handle the average load it will have to carry, rather than choose one capable of handling regularly your maximum load, as you probably would in selecting horse equipment. With the amount of time saved by motor transportation it is usually possible to split up any extra heavy carriage into one or two additional trips.

Another question to be considered is solid

versus pneumatic tires. While the former have been and probably will continue to be best for very heavy loads and heavy wear, for ordinary conditions they are likely to be less satisfactory in the end. As I once heard a practical repair man say in answer to the contention that solid tires were cheaper, "the expense of solid tires is in the engine," and over rough roads that is undoubtedly true. Speed is also an important consideration for farm work, for the time saved in making the return trip with a fairly fast car will often offset additional tire or gas expense in getting the load to market in good time.

There is one type of farm car which would seem not to have been fully developed as yet, although there undoubtedly would be a big field for it, as is evidenced by the number of attempts one sees to improvise something of the kind on the part of car owners. That is the combination runabout and light truck, something to take the place of the popular horse-drawn "democrat" wagon. For less than fifteen dollars one can now get a light truck body to fit the

chassis of one of the most popular lowpriced cars, requiring but the removal of four bolts to change it from a runabout to a light truck. There has also recently been put on the market a successful chain drive addition by which one of these light cars may be converted into a perfectly practical one-ton truck. In using the original chassis of a light car for truck purposes, it is a good plan to reinforce the rear axle with one of the several braces made for the purpose, and also to invest in a pair of solid rubber "bumpers" which prevent the

springs from being driven down below certain point in going over hummocks, r holes, etc., such as one encounters.

TRAILERS AND OTHER DEVICES

Another way of utilizing the car for fa purposes, which has been rapidly incre ing in favor during the last few years by the employment of "trailers." The are of various forms and sizes, but principle is to get the weight of the l to be carried on to a third pair of wh so that the rear car springs will not overloaded, and at the same time to k the load so near the car that it will be pr tically part of it. The trailer has of cou the additional advantage of leaving all space in the car itself available for I senger use, and of eliminating the dar of disfiguring it. Trailers in use have propracticable for all sorts of hauling, where an occasional load only is to be ta to or from town, or supplies taken al as on a camping or fishing trip, they the simplest and cheapest solution of m a haulage problem.

Tire expense for service cars, trutrailers, etc., is of course an important it A considerable percentage of this expemay be saved by utilizing worn passer car shoes for "re-treaded" or double-treatires. The expense of having two old to converted into one is much less than cost of a new tire, and while the doutreaded tire is not as neat looking, it frequently give just as long service and new shoe, and of course cut the expense

Where a simple truck body with of top is used, a tarpaulin of suitable should be provided and always carried all to protect the load from dust as well from rain. It should be provided with number of short pieces of rope, with right or eye-bolts along the side, so that it is be quickly put in place and held tight of any size or shape load that is likely to put top.

In the main, these are the varied use which the farm car can be put. The with ingenuity may find even more pic esque jobs for his motor, but it is more visable to use the car as a car than to it to sawing logs and such. For the walue of the car on the farm lies in the that it is ready for use at any mom which is more than can be said of the a age team.



In a thousand and one ways the car is practically useful. I would take a well-trained team to stand still enough for this operation



THE DOG FOR THE CAR

A Variation of The Old Theme of "Take The Family Along"

Photographs by Beals and Brown Bros.



Among the smaller breeds the ever popular Pekinese is a favorite "accessory." Two of him will fit comfortably in even a small semi-racing car



A chow finds himself as much at home in a runabout as in the reception room. Though he may need a seat all to himself, he is a good companion



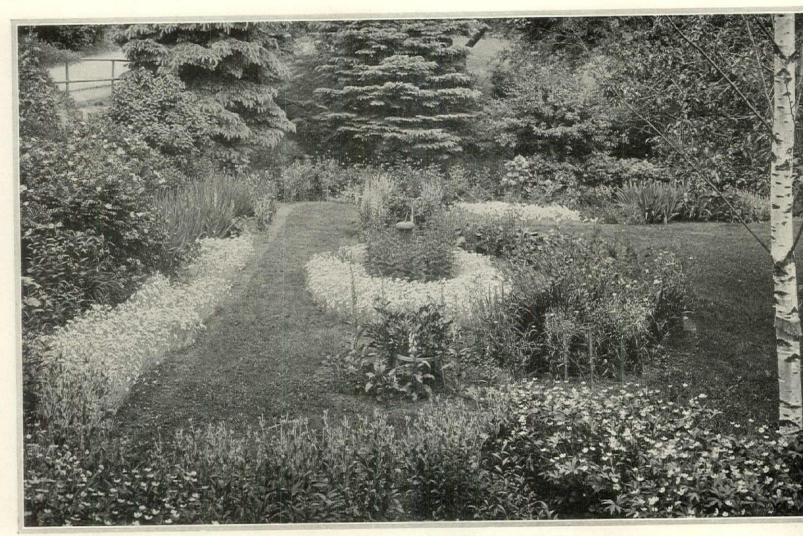
For a more topiary effect the poodle is in a class by himself. He would doubtless be seen frequently in cars were he less rare in the home

WITH the advent of these gasolinedriven days there has come a new stage on which the dog stars well-nigh as brilliantly as he has done for ages in the home: the stage of the motor car. The dog in the car is today a conspicuous and popular feature in town and country. Whether Peke or poodle, chow or Chihuahua, Pom or pointer, the fact of his breed matters little so long as he "fits."

The photographs on this page were taken at one of the big race meet openings early in the summer. They suggest a few of the many possibilities in a theme that is ever growing in favor, and which appeals as strongly to the dog as it undoubtedly does to his master or mistress.



The Irishman likes to be there or thereabouts whenever anything happens. But even he cannot safely ride on the hood at high speeds



The perfume garden is restful and sweet with the scent of grass pinks and other fragrant blossoms

THE GARDEN OF SWEET PERFUMES

We Plan Our Gardens for Color and Form Harmony - Why Not Consider Perfume as a Leading Factor?

KATE V. SAINT MAUR

T is unfortunate that the Pilgrims arrived in America during a period of religious persecution which caused any gratification of taste to be looked upon as a beguilement of Satan. Even to this day

The day-lily should be included because of its perfume, though its form is not prepossessing

our gardens bear evidence of Puritanical repression of anything so pleasing to the senses as perfume, for though they are glorious in color now, they lack the enchantment of fragrance which makes the old established gardens of Europe so alluring. Yet plant odors are so delicately indiscernible and suggest such a wholesome fragrance that there is good reason for introducing perfume plants into the garden, and not a single objection, since it means only a few packets of seed and a little thought in the selection of sorts.

SCENTED SHRUBS AND VINES

In the distant corners you may use such shrubs as white and purple lilac, syringa, strawberry shrub, flowering currant and Adam's needle, which throws up a branching flower stalk 4' or 5' high bearing hundreds of creamy white, fragrant blossoms. These four large shrubs bloom in succession and provide perfume from early spring until late in August. The first three are perfectly hardy, but Adam's needle or, to give its true name, hardy yucca, must have some light protection during northern winters.

Such vines as honeysuckle, jessamine, clematis, mignonette vine and moonflower should be planted around porches and pergolas, to ensure bedrooms receiving a benediction of fragrance on cloudy days a after the shades of evening close in, their perfume is always stronger then the during the hours of bright sunlight.

The white day-lily grows about 2' or



Clematis paniculata, one of our best fal flowering vines, delights the senses of sight and scent



The old-fashioned honeysuckle has a place in the scheme which none other could quite fill

h, and since it is not especially attractive appearance, can go into some odd corappearance, can go into some odd corappearance. Wallflowers are among the sweetest hardiest of English perennials, but it is nost impossible to carry them through perican winters. We have been denied it delightful fragrance until a few years when an annual variety was developed the is almost as sweet as the perennial overy easy to grow from seed.

Of course, it would not be a real perfume den if there were not some old-fashed cabbage roses in it, which are not so utiful, perhaps, as their more modern sins, but much hardier and truly rose

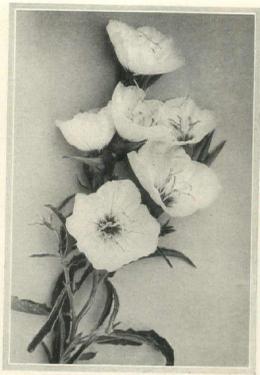


scented. Rose and mint geraniums and lemon verbenas are sweet foliage plants which must not be forgotten.

Among the loveliest of evening primroses, some of which are native perennials, are the white evening primrose (*Enothera speciosa*) with fine large blossoms and succeeding in dry soil; *E. biennis grandiflora*, an improvement on the common evening primrose (*E. biennis*); another white sort (*E. albicaulis*), of low growth, but bearing immense white flowers; and *E. Drummondii*, which has two varieties, pale yellow and pure white, very lovely annuals readily grown from seed and developing beautifully.

OTHER PLANTS FOR PERFUME

Verbena Mayflower, with large clusters of pure white or pale pink flowers, is especially fragrant at night; so, too, are white or pink and white petunias. Various pinks, including the clove scented grass pinks of

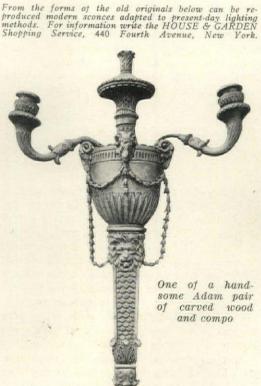


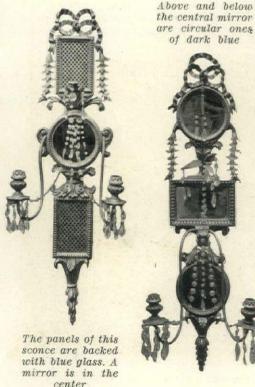
The white evening primrose ranks among the most charming of all sweet scented plants

May; the beautiful pale yellow and white Marguerite carnations; double white Sweet Williams; ten-weeks stocks, canary, rose, May Queen (a pale lilac) and Princess Alice (pure white) are in bloom for weeks. Mignonette; snapdragons, Giant White, Chamois, Golden Queen and lilac; three dainty edging plants, Virginia stock, sweet woodruff and sweet alyssum; flowering tobacco (Nicotiana affinis), growing about 3' or 4' high, branching with clusters of white tubular flowers; night blooming stock (Matthiola bicornis), a low, weak stemmed plant with ragged pinkish or white flow-(Continued on page 50)

SCONCES WITH A LINEAGE







THE DROUGHT RESISTING CACTUS

To that Spare Dry Spot in the Garden, Where Nothing Else Succeeds, the Plants of the Desert Will Add a Wealth of Unique Interest

ROBERT STELL



Photograph by Dr. E. Bade

The Cereus genus comprises about 100 species which show many variations. This one is fulviceps



Photograph by Julian A. Dimock

This is one of the so-called "night-blooming" Cereus group. Only a small section is shown here; the entire blossoming area is about 100 square feet



Photograph by Dr. E. Bade

The flowers of Echinocereus Engelmannii are sometimes 2½" long. Their
color is a purplish red

AT least to the average gardener, the cactus is essentially a product of its natural environment. Less academically, it is a plant of the desert, by the desert, for the desert. Where other growing things would wither and die in the moistureless glare, the cactus waxes fat and high. When rain does fall it is sucked up and stored in the plant's body. Minimum surface combined with maximum thickness reduces the loss of moisture by transpiration through the cactus' pores. Foliage leaves it lacks. Heavy outer walls surround the natural reservoirs within, defenses against dry times. In a word, the cactus is one of Nature's own shining examples of the value of preparedness. It is forearmed.

Then why, since a garden is no desert, consider these desert products for the garden, do you ask? Well, for two particular reasons:

In the first place the cactus family is a novelty, in the sense of being composed of members that are different from all other cultivated flowers. They are grotesque in form and often beautiful in flower, certain to attract the eyes and comments of all who see them, and to add a unique touch to plantings

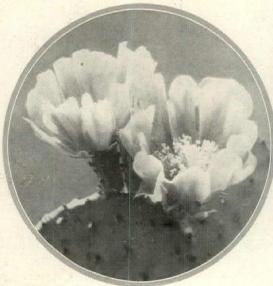
which are not too formal. Again—and this is a genuine recommendation—many cacti will grow where nothing else worth while will, in the full sun of midsummer and through the long droughts which often then prevail. Many an otherwise bare and neglected corner can thus be made to bloom and hold the interest with its freakish crop.

SUMMER CULTURE OUTDOORS

It is perhaps needless to say that with the exception of a few species such as the hardy Opuntias, cacti cannot stand exposure to our Northern winters. Some flower lovers who grow them as house plants make it a practice to set them outdoors during the summer months, transferring them from the pots into the open soil of the garde. In many cases this plan is successful, he as it involves danger of bruising when it potting the plants in the fall, a safer scher is to plunge pots and all, without disturbit the roots, in the chosen garden spot. this way the same effects will be obtained in the earth. With the return of cooweather it is a simple matter to install the plants in the house for the winter.

Successful cactus culture is largely a m ter of proper soil and perfect drainage. half-and-half mixture of good fibrous los and fine siftings from the old lime rubb of a brick building, with a little clean sa added, will fill the bill as far as soil is co

cerned. As drainage in t summer, select warm, well drain spot outdoo which is sunny a has a good circu tion of air. It best at all times avoid breaking bruising the plan in any way. I pecially does t apply to the 1 fall and winte when growth most nearly d mant. During spring and ear summer such juries heal a form calluses m quickly, and danger of result disease is lessen



Photograph by Dr. E. Bade
Opuntias include many widely differing forms, one of which is here represented in the flowers of purpurescens



Photograph by Graves

Some of the Phyllocacti have especially large blossoms. The genus is characterized by flattened branches

A LITTLE PORTFOLIO OF GOOD INTERIORS

Line and color are the two essentials of decoration. Unfortunately these pictures show only the line, but the color is described. The lines of the furniture may suggest ideas for your own rooms. For further information address HOUSE & GARDEN Shopping Service, 440 Fourth Ave., New York





mage & Watson, architects

The dining and breakfast rooms have been well combined in this suite. Walnut Queen Anne furniture, white woodwork and a two-toned rug are used in the dining-room, with painted furniture in the porch breakfast room beyond

© M. H. Birge & Sons Co.

An unusual arrangement of the stairs adds individuality to the hall. The woodwork is white and the wall paper a peacock pattern in green and lavender; the furniture is consistently Colonial

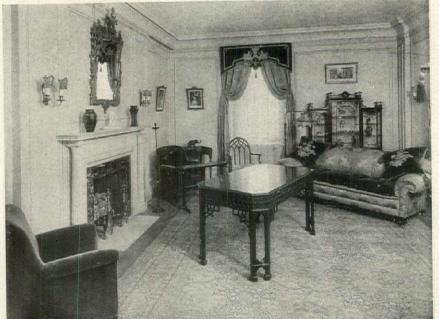


Edmund B. Gilchrist, architect

The trouble with most halls is that they are cluttered. Better far a Spartan Colonial simplicity as shown here



Chatten & Hammond, architects
In a pleasing fashion the furniture of this room is adjusted
to its architectural background of white mantel and
built-in bookcases. The walls
are a light tan in small pattern, the rug a one-tone made
from carpeting. Antiques and
reproductions are well mixed
and excellently arranged



Gimbel Brothers, decorators
In this living-room, againg paneled walls of light grey been set a blue color schema deep damask upholster. Chesterfield sofa with boushions, two chairs in bountique velvet, Chippend cabinet, table and mirror, blue damask hangings. The color of the c

Gimbel Brothers, decorators A guest room with the modern note. The furniture is black note. The furniture is black lacquer with polychrome designs, the draw pulls of silver and blue. Carpet, grey Wilton. Hangings of printed linen with curtains of Phrygian lace and draw curtains of Punjab wilk in natural colors. silk in natural colors



Gimbel Brothers, decorators Simbel Brothers, decorators

A little card room has b
furnished in black lacq
with rouge color legs and
derbody, Asia Minor a
hangings of printed linen w
embroidered net curtains
silk sun curtains, a bro
lamp and vellum shade w
adjustable frame adjustable frame







is & Clark, architects

A striking feature of this lining-room is the use of mirconting room is the use of mir-ors over the mantel and over he console on the farther side. Candelabra and sconces have een effectively placed. The laper is an old design in anels. The over-door decoraions are interesting and harmonize with the scheme



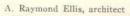
Gimbel Brothers, decorators

Gimbel Brothers, decorators

A dining-room Chinese in
feeling. Walls paneled and
painted light grey, a mulberry
Chinese rug with design in
blue, rose and gold; brass
sconces; floor lamp of black
lacquer with floral designs and
Chinese symbols. The furniture is Chinese in black lacquer with gold and jade spots



rles Platt, architect
the disposition of the furniture in this living-room is caltulated to avoid crowding and
o impart the restfulness of
targe spaces in addition to
fording the valuable rug just
isplay and even wearing.
Tote that the woodwork is
considered sufficiently decorative in itself



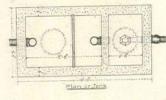
A. Raymond Ellis, architect
The effectiveness of this diningroom is gained by a few pieces of furniture, and those good in line and consistent in period. The room would be further enhanced by putting shirred scrim curtains on the French window, attaching the curtains against the glass top and bottom

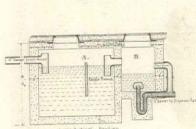




SEWAGE DISPOSAL FOR THE COUNTRY HOME

Three Systems that Are Suitable for the Good Sized House, the Summer Camp, and the Seashore Cottage

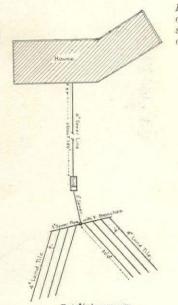




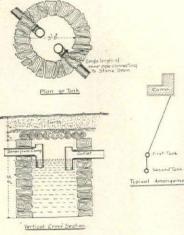
THEODORE CRANE

The disposal field is a necessary adjunct to the septic tank. It is entirely underground

Though only 10' x 5' x 6', this tank takes care of the waste from a good-sized country house



For a summer camp or shooting box the system is laid out according to these three plans



TEXT to the modern sanitation of the country house, the most important advance made in the last few years from a hygienic standpoint has been the proper disposal of the sewage. It was not many years ago that the owner of an isolated country home was satisfied with a new bathroom or two and gave little thought about the drainage system upon which they depended. Now, however, science has stepped in, and the slipshod methods that menaced not only the water supply of the vicinity but even the air of the house are passing away. The old-style cesspool is no longer a dreaded necessity. We have learned how to use the bacteria of sewage for its own destruction, and the result is the septic tank and disposal field of today.

THE SEPTIC TANK SYSTEM

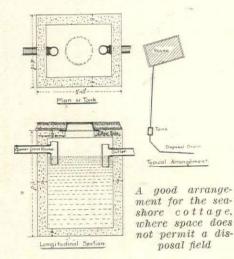
The septic tank is primarily a water-tight receptacle into which the sewage empties, located preferably a hundred feet or more from the house. At the smallest it should be large enough to hold an eight-hour output, and from there up the size will vary with the design. This tank serves a dual purpose as a place in which the sewage undergoes bacterial action and where the solid substances have an opportunity to settle.

From the tank a line of sewer pipe leads to the disposal field, which is usually a system of porous tile laid end to end in shallow trenches about 12" to 18" under the surface of sod land. The tile receives the effluent from the tank and distributes it under the roots of the grass which will about the latest trenched to the solution.

sorb all moisture and odor. There is at present quite a variety of disposal systems, all of which are designed to meet special requirements of location and soil. The usual practice for large residence work is to have a double tank, the sewage flowing from one part into the other, and from there syphoning periodically to the disposal field. This has the advantage of disposal field. thoroughly flushing the entire tile bed, which enables a greater absorption, and is especially valuable when the contour of the land does not furnish adequate grade for the tile lines. Another variation is to use a twin disposal field having a head-gate which permits alternate use. In any system the solid substances, which represent only about one-quarter to one-half of one per cent of the entire sewage, should be removed from the tank every few years as required.

Let us see how the design works out in

actual practice. Consider that you are the owner of a country house with, say, four bathrooms and the usual kitchen and laundry fixtures. The garage is provided for elsewhere. The rain-water from your roof is also taken care of. You tell us there is an average of six in the family, with two servants. So with a customary per capita water consumption your house would be well served by a septic tank 10' long, 5' wide and 6' deep, divided into two com-



partments and connected with a disposal field having from 200' to 600' of porous land tile, the number of feet of tile required between these limits depending upon the ability of the land to absorb moisture.

The tank can best be built of concrete and arranged as illustrated. The first chamber (A) receives the sewage and accumulates as sediment the solid substances. The second chamber (B), into which the liquids pass, gradually fills until emptied by periodic discharge of the automatic syphon, which passes the effluent on to the disposal field. As the tank is placed entirely under-

ground the sewage is kept warm, so that the tile beds will not freeze, even in extreme winter weather. In fact, the heat generated by the septic action tends greatly to obvia danger from the frost. Both the inlet pipe and the pipe connecting the two chambers should be fitted with tees and carried we below the level of sewage, so that the sufface where the bacterial action is most efficient will not be disturbed by the inflowing and outflowing currents. For this sampurpose a baffle board is run across the receiving chamber. The two manhole cover on top give access for cleaning.

on top give access for cleaning.

Next comes the disposal field whis should be located on the down-hill side the septic tank where the contour of the ground will give proper grades for the the lines. The connection is made by a lines of sewer pipe, which should have a pit of about 1/8" per foot. The grade of the disposal tile should be 3" to 6" in each of the sewer pipe.

of about 1/8" per foot. The grade of the disposal tile should be 3" to 6" in ea 100', the steeper grade being used who the soil is more porous, in order th the liquid may flow through the ent course before leaching out. The sketch lustrates an arrangement of the dispo field, with a head-gate to permit alterna use of the two halves of the bed. It see that if the tile have a "rest," they do b ter, and greater efficiency of absorption obtained from the surrounding soil. T tile trenches are dug 18" deep, and are fil around the tile with porous material, eith sand and gravel or cinders. No mor should be used, the ends being merely but together and a piece of burlap laid over joint to prevent clogging the pipe while ing the trench. After the work is comple the whole area can be used as garden lawn. The cost of such a system, as ill trated, would be approximately \$600.

THE SYSTEM FOR THE SUMMER CAM

Now all this applies particularly to fairly large country house. If we considure a camp or shooting-box located in the worthe problem is somewhat different. Somewhat different, somewhat pose that you desire to provide for second eight people as inexpensively as possivithout polluting your nearby stream lake. You expect to use the system of intermittently and probably not over months of the entire year. Furthermound building materials are almost unobtainated Consequently you would hardly be wranted in constructing a complete disposation (Continued on page 52)

THE LAWN BIRD FAMILY

Grotesque as they are in color and form, these quaint things of painted and varnished wood will almost make a horse laugh. You plant them in the lawn or place them on the porch. They may be purchased through the HOUSE & GARDEN Shopping Service, 440 Fourth Avenue, New York.



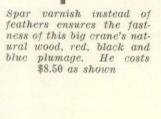
The demure duck is life size, and though her colors are blue, yellow, black, white and natural wood, they will not fade



Naturally her mate looks more masculine. His colors are the same, though differently arranged. These two cost \$8.50 each

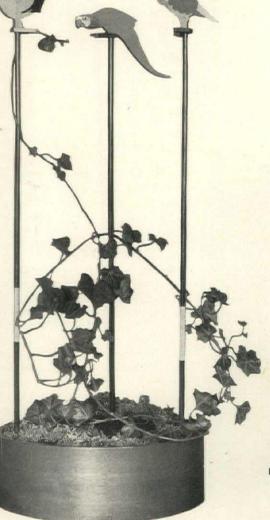


No, this isn't a bird—merely a lady candlestick for bungalow or porch. Natural wood, red, white and black spots to indicate robe. \$10





Here is the way to use the goose in the garden. Life size, white with a yellow head, black and white eye. \$8.50



The rooster is red, black, white and natural; parrot, greenish blue and red; cockatoo, white, yellow, red, black and natural. \$3.50 each



Aquarium bowl, $10\frac{1}{2}$ " x $10\frac{1}{2}$ " x $6\frac{3}{4}$ ". Stand, 10" high x $10\frac{1}{2}$ " wide, black, natural wood and water-blue. \$18 complete

sch of We end con let be

Photo by Brown Bros.

A white oak that has grown in the open is a far shapelier tree than one whose development has been hindered by crowding companions

WITH more than mere sentimental fancy it has been said that trees are the most human of all rooted things. They have character, long life, individuality. Comfort is in their shade on a summer day, and to the call of the wind each answers with a different voice. We may not say that trees have souls or power of mind, but there is something in tree worship, for all that.

It is perhaps trite to cite the elms of New England or the oaks of Great Britain as embodying all that is best and most satisfying in deciduous trees, but they are perfect examples of the principle which should underlie the great majority of tree planting



Trees should not be planted too close to the house, else they will seriously interfere with the circulation of air during the summer

TREES FOR ALL TIME

Permanent Planting and Its Bearing on Futur Effects — Deciduous Sorts That Stand the Tes

ROBERT S. LEMMON

for shade and ornamental effect. For these great fellows, perhaps two or three or four hundred years old, are permanent. Long life has given them not only immense stature, but a wealth of associations as well. They are integral parts of their sites, as essential to the general

scheme as the house, the background of hills, almost as the ground itself. We design our houses that they may endure, may increase in satisfying comfort as they grow old with us; let us so plan that our trees, too, shall be a worthy heritage to others.

PLANTING FOR PERMANENCY

It would seem to be obvious enough, this matter of planting for the future, and of a truth many a man attempts it in all good faith. Yet how often is partial or complete failure the result, for some reason which lack of knowledge or foresight failed to consider.

Take, for example, the choice of varieties. It is a great temptation to set out the quickest growing sorts for the sake of their relatively speedy results. But, with few exceptions, the rapid growing trees have weak wood. For 60' to 70', perhaps, they shoot up splendidly, lifting and spreading long limbs and casting shadows far across the lawn. Then, when they have reached their prime and are beautiful for all to see, comes a summer gale which in five minutes leaves them but wrecks of their former

leaves them but wrecks of their former selves. Slender branches, graceful and perfect in outline but brittle at heart, are ripped off and tossed a dozen yards away. Crowns are shattered, trunks split, beauty and symmetry forever destroyed. A strong and certain growth is essential to the tree which shall withstand the winds, and, except in a few species, this is not characteristic of the rapid growing varieties.

But all this is destructive rather than constructive. Let us therefore consider some of the best of those deciduous species which are at once sturdy, permanent and good to look upon.

In their fulfillment of at least the first of these requirements the oaks are proverbial. Several species, too, are well adapted to lawn planting, among them the red, the white and the pin oaks. The first mentioned is especially good, as it is practically proof against the attacks of insects and disease, besides being well shaped.

When considering any of the family as possibilities for the home grounds, it is well not to judge them by specimens seen growing in the woods. Forest trees as a rule are less spreading and have higher set branches than those which develop in the open, and may be more or less uneven through the crowding of other specimens about



Photo by Brown Bros.

The horse-chestnut is not only a well formed, symmetrical tree, but an especially beautiful one when covered with handsome flower spires

them. The oaks as a family cannot be su cessfully transplanted after they are seve or eight years old. Seedlings under the age should be taken up without harming their long tap roots, or, if you prefer, it a simple matter to grow as many as you want from selected acorns.

THE BEST MAPLES

Perhaps the most popular ornament trees, at least in the Eastern States, are the maples. From the numerous members of the family so used three stand out as bein especially desirable: the Norway, the reor swamp, and the sugar maple.

The first of these is the dense, rour headed tree with broad leaves that two clear yellow before falling, which form such superb avenues in some of our suburban towns. No sight in the tree world more beautiful than a perfect Norway map in October, and when we learn that it one of the few exceptions to the rule the quick growers are weak, its desirability a home grounds tree is still further expended. There is a red leaved variety, to which is sometimes used in combination with the yellow and makes a good contrast where two colors are desired.

The true red maple is indeed well name Beginning with its red blossoms in sprin the color scheme is repeated in the scarl autumn leaves and, after they have falle in the red twigs which hold their tint throug the winter. It is desirable in every way, spreading, symmetrical tree from 50' to 10 high, with a head of slender, erect branche The bark is a dark grey, somewhat flak and the limbs pale by contrast.

But the finest of all the family, in the opinion of many, is the sugar maple, the sort whose sap is so eagerly gathered for boiling down to syrup and sugar. It is a tree of superb form and stature, sometimes reaching a height of over 100', compact and symmetrical with its many upright limbs forming an oval head which spreads somewhat with old age. Beautiful throughout



ourtesy Stark Bros

The sugar maple is perhaps the best of all its popular family. In autumn it glows with a wonderful harmony of yellow, red and orange

the year, the sugar maple reaches its greatst glory in the autumn, when it glows with wonderful harmony of yellow, red and brange. Whether planted singly or in roups, it is worthy of the best traditions and ambitions of the tree lover.

ELMS, TULIPS AND OTHERS

The American elm, a splendid tree in ocalities where the destructive beetle which eeds on its leaves is under control, is too rell known to need description. Its vasemaped outline is at once graceful and strong, and especially effective at a distance. In the New England States it is a feature of the landscape which can never be forgotten. The European linden, too, is a tree which mould not be overlooked. At times it attains a height of nearly 100', and its sturdiness and shape endear it to every real tree over. It is one of the rapid growers which the well adapted to permanent planting.

We come now to a tree which is excellent ike for shape and bloom, the common but to seldom seen horse-chestnut. One of the photographs tells the story of its appearance better than could words. Remember, looking at the picture, that the terminal tikes of flowers are cream colored and time out with the leaves. It, of course, as no value as a nut tree, for its large tuits, ripening late in the summer, are inlible although very handsome.

lible although very handsome.

There are several good species besides ose already described, but I am going to nclude this short list with one which ems, personally, to be the best of all. It the tulip tree or yellow poplar, and if

ever anything merited the adjective stately, that thing is here. A trunk straight as a mast and sometimes 200' from root to crown; short branches forming a regular, conical head and in early summer bearing greenish yellow, tulip-like flowers; lobed leaves 5" or 6" long and broad, dark green above and paler beneath, which change to clear yellow in autumn—these are a few

of the characteristics which the tulip tree possesses. It has been said that the wood is brittle, but I have never seen any indications of this in growing specimens. I know of several which have successfully withstood gales which wrecked maples, chestnuts and even spruces growing near by, and this in summer when the foliage adds immeasurably to the strain put upon the branches by the rush of the wind.

rush of the wind.

So much for the choice of such species as will do their full part in making your place of the future a spot of tree beauty and lasting charm. Now just a few lines on the theory and practice of their arrangement.

THE THEORY OF ARRANGEMENT

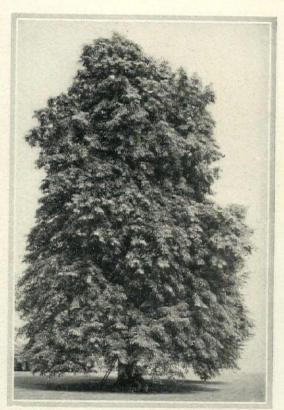
Trees should shade the ground around a house rather than the house itself. Too often this fact is overlooked, and we find the branches so closely crowding about and above the building that free circulation of air in summer is seriously impeded. If you consider a moment you will realize that a house which is itself densely shaded but surrounded at a distance of a few yards by an expanse of sunny and superheated ground will be less cool than one which, while the sun may strike it directly, is encompassed

with a ring of shaded, cool air which has a chance to circulate and penetrate through the open doors and windows.

From the landscaping as well as the onlooker's standpoint, the quantities of
sunshine and shadow in any tree planting on the grounds should balance.
Nor does this refer merely to the actual
shade area created by the trees—their
own habit of growth has no small
effect upon it. From a distance an
elm or a white birch, for example,
gives less of an impression of shadow
than does a horse-chestnut or a European linden, simply because more
light passes through the interstices of
its limbs and foliage.

It is a mistake to plant a great variety of trees, lest the effect be too hodge-podge. Out of ten specimens, perhaps six should be of one species, three of another, and one of a third. As a general rule they will look best when irregularly grouped instead of being spotted around like the dots on milady's veil. Exceptions to this plan are found in the case of those too rarely seen perfect specimens which, like the elm, the European linden and a few others illustrating this article, are so superb as to dominate all the surroundings by their very magnificence of form and stature. But wherever and whatever your trees may be, remember that permanence should be one of their greatest charms.

Speaking generally, there are two sources from which your trees may be



Courtesy Davey Tree Expert Company
A hundred-foot European linden like this convinces one that tree worship is not all sentimental fancy or idle imagining

obtained, the nurseryman and Nature. Young stock from the former is apt to be of better shape and more easily transplanted than the wild specimens, for it has had better care and enjoys the advantage of being taken up and prepared for shipment by professionals who thoroughly understand their business. On the other hand, trees of larger size and consequently more speedy effectiveness may be obtained from their wild sites. If care is taken to select carefully those specimens which are of well-shaped, healthy growth, the results from "natural" trees are often excellent.



Courtesy Stark Bros.

The American elm is at once graceful, strong and effective in appearance. It is a memorable feature of the New England landscape

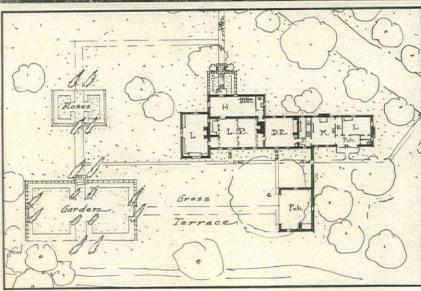
"ALLONBY," THE COUNTRY RESIDENCE OF CHARLES PLATT, ESQ., AT LAVEROCK, PA.

JOSEPH PATTERSON SIMS, architect



As found, the house looked not unlike Belgium after Von Kluc got through with it. As restored and enlarged it is thoroughly characteristic of the Pennsylvania stone farmhouse type and trul Colonial





The house and the garden have been treated as separate units, trees and shrubbery surrounding the house, the more formal development being kept for the rose and kitchen gardens



Stand about where the L is in the living-room on the plan, and you command a pleasing vista across the bricked hall and through the housedoor to the forecourt



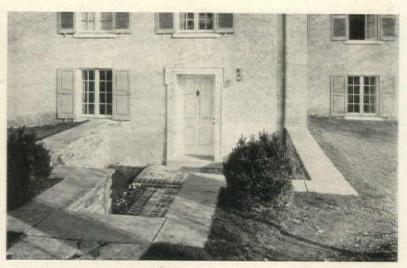
the library was an addition to the original structure. Its finish toks no more modern, however, than the other rooms, as the Colonial simplicity was reproduced



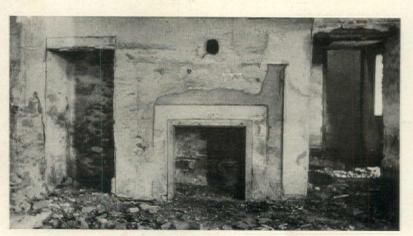
An old fireplace at the end of the dining-room was turned into a lounge the original ingle window—an unusual Colonial detail—being preserved intact



the right is the living-room fireplace as found; above, the same eplace preserved. The walls are sand finished and in every way e Colonial spirit has been maintained. A study in contrasts that oves no house to be neglected beyond the possibility of saving



Among the pleasing additions was a sunken forecourt in front of the housedoor, with a brick pavement laid roughly in wide bond



Suitabl

mith

storied

portico stucco

porch, opendant in ha iron, well

the gl

com

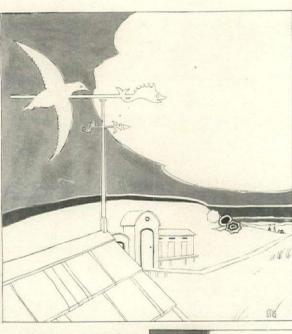
WHERE IRON ENTERS INTO THE GARDEN

There are some uses in the garden for which no fabric is better fitted than iron. Its durability resists the weather. Those who cannot resist the temptation of buying the objects shown here can purchase them through the House & Garden Shopping Service. For names of shops address House & Garden, 440 Fourth Avenue, New York City.

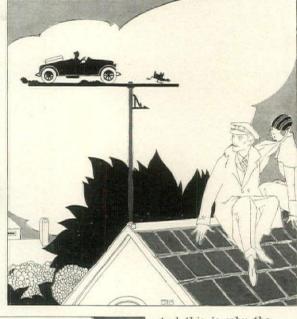


Reproduced from an old lantern that used to be swung in the shrouds of a sailing vessel, this makes an interesting spot when hung in the porch or sun room.

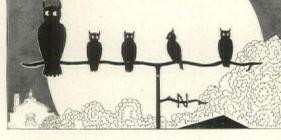
Verde antique finish, \$20.00



Intended for a boat house, or seashore cottage, a gull in pursuit of a fish. Of hand-forged wrought iron 31%" long by 21" high in black finish. It has a weatherproof bearing, \$20.00



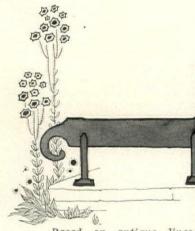
And this is why the hen crossed the road. Realistic and intended to cap the roof beam of a garage. It is 38" long and 15½" high, of handforged wrought iron, with weather-proof bearing, \$30.00



Nature supplies the moon; the rest of the picture can be bought in wrought iron and put on the barn. 36¼" long by 19½" high, and highly effective. \$28.00

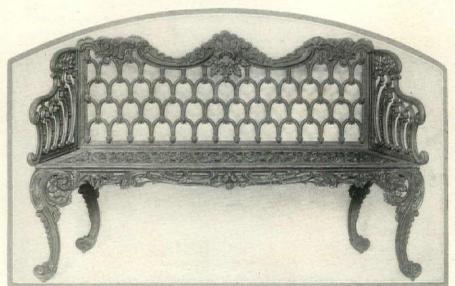


Dutch porch lantern comes in black or Pompeian verde finish with lights of rough or frosted glass, 28" long by 9½" wide, electric wired. complete, \$20.00



Based on antique lines, wrought iron footscraper u add an interesting note of to the entrance. Its top cur useful. 10¾" wide by 4" \$5.00; galvanized, \$5.50





There are some types dens where iron for alone is suitable and sort of garden this Le Roccoo Settee would mirably, \$100.0 Morning Star: Venus

Evening Star: Mars

This Kalendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its service should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing of garden and farm operations

1. Sun rises 4:56; Sun sets 7:16.

sets 7:16.
Germany declared war on Russia, 1914.
Make a final clean-up of the whole place, get all the weeds out and mulch everything possible to offset dry weather.

2. Nothing will give better returns in the cool greenhouse than sweet peas, and this is the time to sow; solid benches are preferable, though raised benches or pots will do. Buy the very best seed.

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

3. King of Norway born, 1872. Of late years we have

had very fine fall weather; take advantage of this condition by sowing sev-eral rows of peas in the garden this month.

4. First Atlantic cable

message, 1857.
Make two sowings of beans this month. Keep the rows about 15" apart so they can be easily pro-tected from early frosts.

5. This is the last opportunity for setting out late celery; use plenty of water when planting. Early celery can now be blanched for table use, with a few boards.

6. 7th Sunday after

Trinity.
A bed of strawberries set out now and well cared for will produce a good crop next season. Strawberries delight in a very rich soil.

7. Order what bulbous plants you want for winter forcing in the greenhouse. Buy good bulbs of tulip, hyacinth, nar-cissus, lilies, calla lilies, alliums, ornithogalum and freesia.

8. Muskmelons should be ripening outdoors. Place boards under each melon, do not step on the vines, and do not pull the fruit; it will leave the vine of its own accord when fully ripe.

9. Late cabbage and cauliflower should now be set out. Keep the plants well watered until root action starts, and well sprayed to kill the cabbage worm until they start to head up.

10. This is an excellent time to go around and label all the plants in the perennial garden; in case you desire to transplant any, or when digging the border in the spring, it avoids losses.

11. Fall spinach can be sown now. Make suc-cessional plantings until October. That which matures now can be used; the rest can be protected over winter, and will be extremely early.

12. Make two sowings of lettuce this month, Sow good big patches which will keep up the supply until Christmas if properly grown and protected later on.

13. 8th Sunday after Trinity. Full moon. Evergreens can be transplanted now. Use plenty of water and keep the plants sprayed until action has started and they have a grip.

14. Relief of Pekin,

Onions if stopped in growth should be pulled out and laid on their sides to ripen. After the tops have dried, twist them off and store the

15. Panama Canal opened, 1914.
Several useful green-

house plants, started now from seed and grown in pots, will flower this win-Among them are stocks, mignonette, clarkia, nicotiana, etc.

16. Why not sow a big batch of perennial seeds now, if you have cold-frames to winter them in? This is a very inexpensive way of making large perennial plantings.

17. Keep the runners removed from the strawberry beds, and the plants well cultivated. Do not allow them to suffer for want of water—they are now forming their

18. Emperor of Austria born, 1830.

Keep a sharp lookout for borers on trees, particularly locust, poplars and fruits. Kill them by running a steel wire in the openings.

19. Arabic sunk, 1915. Keep all dead flower-ing shoots removed, par-ticularly from perennials. They make a garden unsightly and reduce the plant's vigor. 20. 9th Sunday after Trinity. Pope Piux X died, 1914.

Carnation plants should now be moved from the field to the greenhouse. Select a dark day, and shade until they root.

21. Watch for red spider on your ever-greens; many fine specimens are ruined by these pests. Frequent spraying with any good standard insecticide will control them.

22. Cuttings of all bed-ding plants like geranbe taken now. These stock plants are to be carried over in the greenhouse for next spring's bedding.

23. Be sure the greenhouse is in shape for the winter. Any loose glass should be rebedded, the boiler looked over carefully and any new parts required should be ordered.

24. A careful study should be made of bulb plantings for this fall. Most people buy the bulbs before they have decided what they intend doing with them, and the results are unsatisfactorv.

25. Do not neglect spraying garden crops and orchard with Bor-deaux mixture, as in this month above all others the fungous diseases are at work and must be kept in check.

26. Keep all new shoots on vines and climbing roses properly tied up; fall storms and gales will soon be here and may destroy years of growth in a few minutes.

27. 10th Sunday after

Trinity.
On any indication of yellows or curculio in the peach orchard the tree or trees affected should be instantly removed and burned.

28. How about natural planting of some of the bulbs that multiply and establish themselves in this climate, such as the trillium, crocus, narcis-sus, lily - of - the - valley, snowdrop, etc.?

29. Japan annexed Korea, 1910.

Raising seedling dahlias is very fascinating. Gather the seed pods now and hang them in bags in a dry place. Later the seeds can be removed.

30. Roses will be starting into active growth again. Encourage them with top dressings of bone meal or wood ashes and keep them well watered. Liquid manures are also beneficial.

31. Sun rises 5:26. Sun

sets 6:35. This is an excellent time to sow any lawns that may be contem-plated. Permanent pastures of all sorts of mix-tures can be laid down at this time.



Very hot and still the air was, Very smooth the gliding river, Motionless the sleeping shadows -Longfellow.

"Plow deep, while sluggards sleep, And you shall have corn to sell and to keep." The highest known waterfall is the Grand Falls, in Labrador. It drops 2,000', more than twelve times as far as Niagara.

H E N

The articles shown on these pages may be purchased through the House & Garden Shopping Service, or the names of the shops will be furnished on application to House & Garden, 440 Fourth Avenue, New York City.



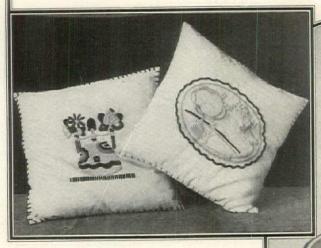




"The anchor that held" is a candlestick of iron with verde green finish fitted with a bayberry dip. Entire profits to go to wounded French and Belgian soldiers.
\$1.00

Vizualize this set of English Faience—a copy of old Chelsea—arranged on a table, and you see it suitably used. The center vase is 5" high by $5\frac{1}{2}$ " wide. \$6.50. The smaller vases are 5" high by $2\frac{1}{2}$ " wide. \$4.00. The set complete, \$22.50

Designed as a rum p but suitable for ot purposes. It is of rene glass with irid cent golden and yel coloring. 3½" h \$2.50



Designed by J. B. Platt

Hand embroidered with gaily colored worsteds in fantastic designs, these heavy linenized crash pillows serve well for porches. The edges are bound with worsteds. \$12.00

Courtesy of Patricia Irwin

Victorian furniture revived. The mirror frame is gilded oak leaves with painted flowers. Table of black lacquer with gold decorations and painted roses. Chairs and tabourets of gilt upholstered with blue damask; these three being Louis Philippe



The varieties of garden baskets are This style is substantially voven an with leather. A leather kneeling added to the equipment of useful \$10.00



Courtesy of Patricia I

Oak William an table of unusu A 17th Century chair." A smal Queen Anne sta Queen Anne sta spiral support crust top. An 1 tury mahogany is cage. And an lish decorated l screen. The can and compote Waterford glas flower painting Dutch artist of Century



Courtesy of Patricia Irwin

A group in lacquer: Adjustable pole screen of black lacquer with Chinese decorations. Louis XV commode of red lacquer with gold mounts and ormulu decorations. Hepplewhite chair with damask seat. Worktable of black lacquer in Chinese style. Waterford glass compotes



Completing the pair of Adam chairs, this shows the center splat design of drapery sus-pended over medallions

Courtesy of Susan Westrope One of a pair of Adam chairs with carved backs and taper-ing legs ending in the charac-teristic spade feet



Painted furniture of grey green with gaily colored flower decorations. Table 26½" high and 29" long. \$20.00. Chair. 35" high, rush seat. \$20.00. Footstool, 8" x 14" x 4"; \$4.00 plain, \$5.00 decorated



Designed for iced tea or lemonade is a new set of iridescent glass with attractively shaped glasses and pitcher. An odd and use-ful feature is the cover to the pitcher. Com-plete, \$5.00



Courtesy of Susan Westrope

The mirror is convex surmounted by a gilt eagle. It is 4' high and 31" wide. The cupboard is of oak with bulbous turned leg and inlaid doors. Two drawers are included below

rtesy of Susan Westrope

titable for the living-room mes a Louis XVI secretaire th inlays of rosewood and sa-twood, arranged in diamond d floral design. The orna-ments are old bronze



Eternal vigilance throughout the summer is the price of immunity from insect pests

WHILE August is usually considered a slack month in the garden, as a matter of fact some of the most important jobs of the year are to be done at this season. Several of next spring's vegetable crops, and your supply of biennials and perennials and hardy annuals Several of for the flower garden will depend on your efforts during the next few weeks. And this fall's most important vegetable—celery—is still to be grown.

LAST CALL FOR VEGETABLES

If you act promptly, have the soil in good con-If you act promptly, have the soil in good condition, and use early varieties, there is still time to plant for late fall use a number of the more quickly maturing vegetables, such as beans, beets, turnips, peas, lettuce and radishes. Beets planted now will be prime for canning small when the weather is cool. If the season is favorable and they are large enough to store, they will be much better for table use, and will keep better than those which have completed their growth. A caution which has been given in these columns betion which has been given in these columns be-fore, but is worth repeating again, is to firm care-fully into the soil all seeds planted during dry fully into the soil all seeds planted during dry weather. Still better, use a modern system of irrigation, ensuring not only perfect germination, but rapid, strong, healthy growth during the early fall months, when conditions are usually right for splendid development, provided there is enough moisture in the soil.

To the uninitiated it may seem like a waste of time to give much attention now to the asparagus.

To the uninitiated it may seem like a waste of time to give much attention now to the asparagus and rhubarb beds. But if the fall growth can be made vigorous and healthy, a bumper crop for next season is practically assured. Very often both these crops are entirely neglected during the latter part of the season, and then the gardener complains of their beginning to "run out." Cultivation should be continued and all weeds kept out until the end of the season. The asparagus tops should be kept sprayed with arsenate of lead to prevent the asparagus beetle; if rust appears (it shows by the premature yellowing of the foliage and elongated small swellings and cracks on the stems) cut the stalks clean back to the

on the stems) cut the stalks clean back to the ground, rake up, and burn.

A good planting of asparagus, well cared for, will last indefinitely. Rhubarb, however, to be of prime quality, should be taken up and replanted every few years. A large clump will make half a dozen plants. If you don't need them, throw or give away five. Change the situation for the new plants if convenient; otherwise they may be put back in the same place. wise, they may be put back in the same place, after the ground has been well forked up and enriched. It will be well to trench it, working under a good dressing of manure.

KEEP CELERY GROWING RAPIDLY

Celery is at once an easy and a difficult crop to grow. It is a gross feeder, revels in an abundance of water, and is comparatively free from insects and usually from rust, the disease most likely to attack it. You probably have the early crop well along in the garden, but it is not too late to put in more for the winter supply, projected the call in well arriched and good attack. late to put in more for the winter supply, provided the soil is well enriched and good, strong plants are used. It is always better to buy transplanted or "re-rooted" plants; the cost will be little more, and they will begin growth so much more quickly than seed-bed plants that nearly a week will be saved in getting them well under way. The use of a starting mixture of dried blood or guano and fine bone in the rows will also be very serviceable. If you have your own

YOUR ALL-YEAR GARDEN

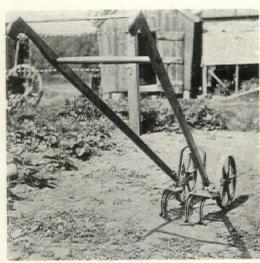
August Activities Among Flowers, Vegetables and Small Fru

F. F. ROCKWELL

plants, don't be afraid to trim them back quite severely when setting out; the extra foliage will be but a handicap at first. If dry, run water in the furrow until it ceases to soak away readily before putting in the fertilizer; then cover in and plant. The furrow may be left 2" or 3" below the surface to fill in as the plants start growth, but the old system of planting in a deep trench is of planting in a deep trench is now little used.

Top-dress the growing plants with nitrate of soda, keep them free from weeds, and keep the soil worked up to the plants as they grow, so that the stalks will tend to an upright position.

they grow, so that the stalks will tend to an upright position. If the weather is dry they can hardly be given too much water, but if the watering must be done with a hose, apply it late in the afternoon and be sure to use enough to give the ground a thorough soaking. The earliest part of the crop should be ready for use toward the end of this month. When it is well grown, and two weeks or so before you want it for use,



No cultivation is satisfactory unless done with the right implements. H Here is one

blanching should be begun. This can be accomplished by hilling or the use of boards, but for the home garden the individual blanchers, made of heavy paper, are very convenient and do the work nicely. They cost little and can be used a number of times. By keeping a dozen or more plants in different stages of blanching, a continuous supply for the table will be available.

THE NEW STRAWBERRY BED

There is no necessity of waiting a whole year for your berry bed to bear if you will get busy at once, prepare the soil prop-erly, and get good plants. There is no better place to use the com-post heap you have been accumulation. lating through the summer than on the new strawberry bed. And a good coating of well rotted manure, in addition to that, will be none too much. A good dressing of high-grade fertilizer should be raked in broadcast. In the rows or hills use fine bone and blood or guano, with twice its bulk of humus added; this makes a mixture which will not harm plant roots if mixed with the soil, although they are very easily lating through the summer than soil, although they are very easily injured by chemical fertilizers. It is always risky to use sod ground for strawberries, as the large white grubs which are likely to infest such ground will kill a great many of the plants in no time.

By all means use potted plants. They are every way the most satisfactory; with ordingood care, in good soil, they will yield a home crop next June if planted early this most aconvenient way is to plant in rows 12" to apart, omitting every fifth row. The plant to be grown by the hill system, which is gene the most satisfactory for the home garden, she at the same distance in the rows. Extra st growing varieties, in rich soil, will require full 15" of room. In planting, soak the root in water for a few minutes before settingenough to let them get thoroughly saturated not to crumble away in handling. A convenience of the control of not to crumble away in handling. A conver way is to place several rows upright in a f tight flat, and pour in water slowly until have taken up the right amount. Then the can be used, without moving the plants agai

can be used, without moving the plants agai distribute them along the row.

In ten days or so, when they have taken give a light dressing of nitrate of soda. It the soil well cultivated, to maintain a dust netween the plants. Watch closely and cuall runners as fast as they appear. This the all the energy of new growth into the devenent of a strong crown for each plant, with result of a full crop next year.

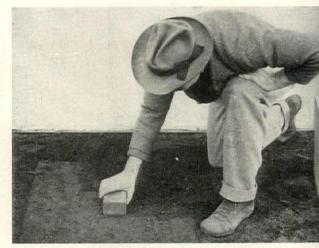
Have you any of the new fall bearing be coming on, and if so, have you made any vision to keep the fruits clean when they velop? If not, mulch the bed as soon as stop cultivation, and let the berries begin to A good way of doing this is to benefit

A good way of doing this is to benefit lawn at the same time by letting the grass a little longer than usual between cuttings

a little longer than usual between cuttings clipping it quite so close, and using the cut as a mulch. Put the freshly cut grass cleach cutting as far as it will go, 2" or 3" to Some of the fall sorts tend to set too fruit. Better berries may be had by reme some of the blossom bunches, and by curta the propensity of the plants for throwing runners and forming new flowering plants.

START PANSIES AND PERRENIALS NOW

In getting a good stand of pansies and biennials and perennials which should be st now for wintering over in the frames, the now for wintering over in the frames, the important thing, next to good seed, is pre prepared soil. An old cold-frame, which me shaded with a cloth or slat sash, is an exceplace for the seed bed. Fork it up and prit; then surface it with 2" or so of light, and soil—adding the sand if necessary about half as much commercial humus a This will give a very light maisture holding. This will give a very light, moisture-holding which will not pack down or bake, and the which the seeds can come up readily. Soa soil in the frame until the water begins to on the surface before putting the prepared on top. The seeds should be sown thinly in on top. T 4" to 6" 4" to 6" apart, pressed into the soil, I covered from sight, watered lightly and shaded. Just before they begin to germ sprinkle flowers of sulphur over the surface a dust gun. Remove shading when plants as



After the perennial seeds are scattered on the surfapress them in with a board or brick

pagoda wall

gned to give

timate touch the Chinese

or the bed-

de-

xture

FIXTURES AS FURNISHINGS

Herein is explained the much neglected fixture, its place in the color scheme of a room and its position on the wall. For the shops where these fixtures may be purchased address HOUSE & GARDEN Shopping Service, 440 Fourth Avenue, New York City.

AGNESFOSTER



Possible Substitutes

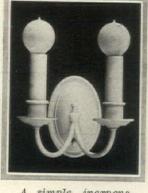
work on.

or the bedcom comes a
couble fixture
tith etched
mirror back

the fixture off at the ceiling, cap or plaster
the hole, and use side lights. Where the
or apartment is still under construction,
arrangements for

arrangements for outlets can be made gh the architect or er. If the work is ou to do, there are general rules of on to remember. e outlet is 6' above oor, a variance of wn to accommodate ature of the family th permissible and ble. If the arms everted or turned the outlet hole hole be somewhat higher 6'. The height of beling is also to be lered. With a 9' g the outlet should be more than 5½'

French to its tiniest flowers, but suitable for the English room as well



An Adam fixture, del-

icate in design, is charming and suit-

able for the bedroom

simple, inexpensive fixture that can be painted to suit color of room

from the floor or even less to fit the furniture.

A better effect is had by using a double light fixture than a single; the latter being apt to look spotty when lit. Besides, it is better to have the arms spreading enough to allow several inches between the sockets. If the sockets are 8" apart, they permit the use of a shade or globe; otherwise an over-all shield would have to be used. With two bulbs thus shaded, the light is softer and less concentrated.

For a room 18' square, four double brackets will give sufficient light. All need not be used save on "grand" occasions. Used in a diningroom in conjunction with four table candles or candles on the serving table, and the lighting effect is at once sufficient and charming. In the living-room reading lamps are required in addition to side fixtures. Base outlets can be put in and the wires run under the rugs. Do not be persuaded into using the regular side fixtures with the wires coming out of them for the table lights. They disfigure the wall and are unpleasantly conspicuous. Any mechanic can run a wire along a door or window trim and paint it to match the woodwork. But the base outlet plan is better. Have a general idea where you want your lights to be and arrange the outlets accordingly. If your table stands on a rug, a hole can be made and buttonholed and the wire slipped through. There are no wires, then, to trip over or be untidy. The job assumes a look of permanency, which all homemakers desire.



Modern wrought iron fixtures are reminis-cent of old Italian work and are justly becoming popular

In any formal room the revived crystal fixtures can be used



these practical construction facts the householder should not neglect the value of fix-tures in the furnishing and deco-rative scheme of a room. FIXTURES AND

In addition to

COLOR SCHEMES

Much of the feeling of a period room lies in the detail of the side fixtures. The furniture may be con-glomerate, but if the walls and pro-portions are true portions are true to the period, and the fixtures as well, the seal is thus set upon the room. Or visualize a room where the rug is Chinese, the walls a plain tone and the hangtone and the hangings suggestive of the Chinese in design. As a distinctive touch use four Buddha brackets picked out with yellows and orange and blues of the rug and hangings. The room is at once made unusual. The



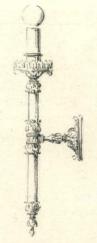
mal room where each crystal plays with the light, enlivening and enriching a delicate wall surface. Another at-tractive fixture is so ar-ranged that the light is ranged that the light is reflected in a gracefully shaped mirror with a tiny garland etched in the glass. Such a fixture would look well in a bedroom with the frame painted and antiqued to match the hangings. This coloring of fixtures is a vital part of fixtures is a vital part of the decorative scheme.



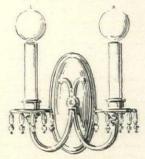
Buddha broods over the Chinese room from his fixture throne of bronze



In a Colonial room this design is always suitable because of suitable becau its lines



Made of wrought iron, this torch will find a place in the entrance hall of oak or stone



The pendants this fixture are blown glass crystals. Use with mulberry shades



Dainty and colorful, the basket and flower fixture finds a place in the boudoir

Furnishing Forethoughts

O YOU need the advice of an authoritative expert ? Our editors' task is to observe, to discover, to compare, to price, to select—the things that go to complete a gracious and charming

The forthcoming issue is an example of what skill and experience can do to set before you the benefits of this trained taste and careful choosing.

September, the Autumn Furnishing Number, will give you inti-mate and valuable ideas for making your home distinctive and individual—a dwelling far above the commonplace. It comes at an opportune time - the season of preparedness for a cosy, livable autumn and winter home.

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You will find it a complete catalog. Nothing is forgotten. It shows well-chosen examples of how your home may be made charming, practical and pleasing. In fact, each article and picture is selected as if especially for youwith a view to beautifying your home and securing more comfort. You need this September number. Moreover this issue is an excellent example of the kind of a magazine vou may expect each month.

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the September (Autumn Furnishing Number). It is not necessary even to write a letter. If you choose, you may use the coupon. It is easier, quicker and more convenient.

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H-G-8-16. City & State

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Index to Advertisements

Architects & Contractors		Household Appliances
kes Co., Inc., Geo	- 6	Hough Shade Corp
Automobiles & Accessories		Stephenson, C. H
andrick Co. B. F.	50	
hite Co., The	5	Household Furnishings
Bird Houses		Kathodion Bronze Works 54
rescent Co., The	4 54	Lewis & Conger. 54 Onward Mfg. Co. 5
	V1	Onward Mfg, Co 5 Silver Lake Co 54 Sunderland Bros. Co. 52 Tuttle & Bailey Mfg, Co 3rd Cover
Books & Magazines		Wiggin's Sons Co., H. B 51
ungalow Craft Co., The	3	Irrigation System
anity Fair	5	
Building Materials		Clark Co., The Geo. W
arrell Co., Wm. L	50	Landscape Architecture
Unrow Wire Cloth Co.	3 5	Heaves Bros & Thomas Co 51
orbin, P. & F rittall Casement Window Co	1 54	Hoope's Sons Co., Stephen. 5 Meehan & Sons, Thos. 5
rittall Casement Window Co. nterior Hardwood Co. ohns-Manville Co., H. W. udowici-Celadon Co	56	Moon, Wm. H
Iallory Mfg. Co	51 52	Lawn Mowers & Rollers
lastic Wall Board & Rooning Co 2nd Co.	ver 3	Clipper Lawn Mower Co 5
lorgan Sash & Door Co	54	Ideal Power Lawn Mower Co 54
Ionson Lustre Slate Co	54 54	Miscellaneous
andusky Fortiand Comment	56	Atlas Preservative Co
Assoc	ver 53	Boston Garter
tanley Works renton Potteries Co., The	50 52	
Inion Metal Mfg Co	5 3	Mait-Nutrine
White Pine Bureau Vilson Corp., J. G Vale & Towne Mfg. Co., The	5	
'ale & Towne Mfg. Co., The	56	Nurseries
Bulbs		Andorra Nurseries
Krelage's Tulips3rd Co Mohican Peony Gardens3rd Co	51	Dean Iris Gardens, The
Mohican Peony Gardens	1.0	Elliott Nursery Co. 54 Farr, B. H. 55
racy, B. Hammond	53	Gillett, Edward 4
Fences		Hicks & Son, Isaac
American Fence Const. Co	5	Vick's Sons, James
Siske Iron Works, J. W	5 50	Paints, Varnishes, Etc.
	00	-
Furniture & Rugs		Cabot, Inc., Samuel 54 Calman & Co., Emil 5 Sherwin-Williams 5
Brunswick-Balke-Collender Co Erskine-Danforth Corp	54	Wadsworth, Howland & Co., Inc 54
Kain, Chas. N Koopman & Son, H Leavens & Co., Inc., Wm	51 54	Portable Houses
Leavens & Co., Inc., Wm.	54 54	Hodgson Co., E. F
Sloane, W. & J	54	Pruden, C. D 53
Westrope, Susan	9	Refrigerators
Garden Accessories		McCray Refrigerator Co 5
Ball Mfg, Co	55 51	Roses
Bird Box, The Boston Woven Hose & Rubber Co	50 52	Dingee & Conard Co., The 3
Galloway Terra Cotta Co	53 52	Peterson, Geo. H 2nd Cover Pierson, Inc., A. N
Galloway Terra Cotta Co	5 50	
Kraus, J. C. Lucchesi, Eugene. Sharonware Work Shop.	51 51	Seeds & Plants
Sharonware Work Shop Woodcraft Shop	4	Burpee & Co., W. Atlee 5
Greenhouses		Carter's Tested Seeds, Inc
King Construction Co	56	The Dog Show 2-3 The Poultry Yard 4
Lutton Wm H	55 55	The Real Estate Mart 4
Moninger Co., John C Pierson U-Bar Co.	51	Tree Surgery
Sunlight Double Glass Sash Co	52	Davey Tree Expert Co 3rd Cover
Heating & Lighting		Water Supply Systems
	5	
Biddle-Gaumer Co Dunham Co., C. A	54	Bishop-Babcock-Becker Co

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ADVICE ON AUTUMN FURNISHINGS

September House & Garden is a guide to the annual autumn furnishing and refurnishing of the tasteful home. Next month you will be investing a great deal of time, thought, and money in putting your house to rights for the winter months. You cannot afford to be without the accurate judgment of trained experts on house problems.

House & Garden is a council of experts discussing all sorts of house and garden problems. We are making this September number solidly compact with household "do's" and "don'ts." These are just a few of the subjects treated—there are dozens more:

Reclaiming the Old Apartment

How skilful management, good taste, and \$800 transformed a nine-room ark into a thing of beauty.

Gardens Among Stones

How to bring a bit of the country home to your city residence by means of the rock garden.

The Rugs of the Heathen Chinee -

Chinese rugs are growing in popularity, and advice on how to tell the poor from the excellent is timely.

Preserving Your Periods

Skilled advice on the selection and arrangement of furniture in harmony with its background and the architecture of your home.

To Blossom at Christmas

A practical article on getting your house plants ready for winter and making certain of early blooming.

Hansel, Gretel & Co. -

The amiable and unappreciated little dachshund as an indoor city pet.

There will be ever so many photographs of good house arrangements, period styles in furniture, new wall papers, and good interiors. Fifty percent of the issue is devoted to practical autumn furnishing problems. Every regular department will concentrate on them. Don't risk disappointment with your furnishings this winter because you were uncertain what you wanted to do this fall. Twenty-five cents expended on House & Garden for September will bring you twenty-five hundred percent return in house contentment. There will be a big demand for this particular number. To make sure of it, reserve your copy at the newsstand, or enter your subscription now.

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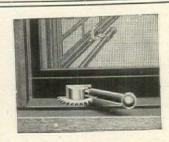
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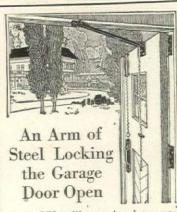
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The Garden of Sweet Perfumes

(Continued from page 31)

and slightly sprinkled every morning. When 2" high they were transplanted to a deeper box and set 2" apart. About two months later they were set in a partly shaded seed bed in the garden, and the last two leaves were nipped off each plant to ensure

again transplanted—this time to a bed which was to be their permanent home, a border partly shaded by shrubs. It happened to be a very dry summer, so they were sprinkled every evening. When cool weather set in dead leaves were scattered beset in, dead leaves were scattered be-tween the plants, and the quantity increased as the weather became more severe. In the spring the mulch was removed and a little bone meal raked into the ground around the plants. The ground must be covered every winter, and it is well to have a dressing of well rotted cow manure dug into the bed in the early fall.

THYME AND ROSEMARY

There are two varieties of thyme: the broad leaf English for flavoring stews and soups, and the almond-scented for the flower garden. It is a pretty, variegated plant which remains green all through the year, and is used only for sachets and pot-pourri. Both varieties are perennials, but if sown early in the spring will is used only for sachets and potpourri. Both varieties are perennials, but if sown early in the spring will mature the first season. The seed should be sown in rows 9" apart, on rich soil that has been worked into a fine, loose condition with a fine garden rake, and later smoothed off with the back of a spade or with a board. Then sprinkle thoroughly, using a fine rose on the watering can. Keep the can moving back and forth until the ground is there with a concoction in a binder or musk, thyme, rosemary and mint leaves, all dried and mixed with one ounce of ground cloves, was grandmother's formula toloves, was grandmother formula toloves, was grandmother's formula toloves, using a fine rose on the watering can. the house fragrant all winter. Make Keep the can moving back and forth until the ground is thoroughly saturated to a depth of 1". Wait for an fancy jars from it.

ers; the catchfly (Silene noctiflora), a tall, leafy plant with large white flowers; and four o'clocks—all these are casily raised from seed.

Sweet herbs as well as flowers must have a place, as they are wanted for sachets and pot-pourri. Southernwood and borage are both aromatic. A lotion made by steeping sweet fern leaves in boiling water will relieve the burning irritation of ivy poison.

Thyme, marjoram—in fact, all

RAISING LAVENDER FROM SEED

Lavender is hardy when it is once firmly established, but it is not the easiest perennial to start in this country. At first I bought nursery stock, but out of two dozen plants which I got from four different sources in two years only one lived, and that was always a semi-invalid, so I resorted to the slower method.

In March a shallow box was filled with potting mould, thoroughly was then covered was then covered was then covered a west winness approach to the slower method.

In Jarch a shallow box was filled with potting mould, thoroughly was then covered was then covered was then covered a west winness approach to the slower method. In Jarch a shallow box was filled with potting mould, thoroughly was then covered was then covered a west winness approach to the slower method.

In Jarch a shallow box was filled was then covered was then covered to the slower method. In Jarch a shallow box was filled was then covered was then covered to the slower method. In Jarch a shallow box was filled was then covered was then covered was then covered to the slower method. In Jarch a shallow box was filled with potting mould, thoroughly was then covered was then covered to the slower method. In Jarch a shallow box was filled with water, as the evaponation will prevent the seedlings becoming too dry. If time will not permit making the frames, spread two or three thicknesses of paper over the rows, using stones to hold them in place, or mulch with lawn clippings. I like the former better, because they are easier to remove and the sountidy as a grass mulch, and blows about. When well established removed. which dries and blows about. When the seedlings are well established the mulch will have to be removed, but if the frames are used they can remain for another week.

Rosemary is another scented per-ennial, and the plants can be easily obtained from any nursery. If you

were nipped off each plant to close a bushy growth.

Cultivation was constant all summer until August, when they were again transplanted—this time to a bed which was to be their permanent home, a border partly shaded by shrubs. It happened to be a very preds some light protection during obtained from any nursery. needs some light protection during the winter. The whole plant is aromatic, but the flowers are the strong-est. The essential oil which is distilled from them is the principle ingredient of eau-de-cologne.

How to Use THEM

A cupful each of lavender, thyme, rosemary and mint, steeped in two quarts of hot water for two hours, strained and added to a warm bath, banishes fatigue in a miraculous way. In cases of convalescence a cupful of the mixture in the sponge

bath is both gratifying and refreshing to the invalid.

Ten pounds of lavender flowers and one pound each of musk, thyme, rosemary and mint leaves, all dried

Silhouettes Old and New

(Continued from page 21)

published in Hartford in 1846 and stoop to such catering, and the collector who becomes interested in silpublished in Hartford in 1846 and is as rare, perhaps, as Eduart's.

Among modern artists who have produced silhouette pictures one may mention Paul Knoewka (famous for his Shakespearean silhouettes), Arthur Rackham, Howard Pyle, F. Vallotin, Valentini, Caran d'Ache, Phil May, Henri Riviere, Jules Diez and Maxwell Ayrton.

There are, to be sure, new silhouettes offered to collectors as old, but reliable antique dealers will not stoop to such catering, and the collector who becomes interested in silhouettes will find the trouble of rummaging in the attic often repaid by the discovery of some old shadow picture, relegated thither when photography appeared, for a time, to displace the delightful old art that alone has preserved to the present generation the outline portraits of many of those who otherwise would have passed shadeless from this world into oblivion.

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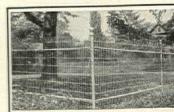
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Sewage Disposal for the Country Home

(Continued from page 36)

deep, built of the local stone and laid without mortar. There should laid without mortar. There should be no bottom, and the top can be roofed with logs covered by 1' of sod or earth. Locate these dry wells 20' apart, the second a little down hill from the first, and connect them by a blind drain 2' below the surthem by a blind drain 2' below the surface of the ground. Both wells should be at least 100' from the camp, the nearest one connecting to your plumbing fixtures by a tight, carefully laid sewer line. This system, although not nearly as efficient as a well designed septic tank and disposal field, will give septic tank and disposal field, will give excellent service for a number of years, with an occasional cleaning of the well through which the sewage first passes. When eventually the sur-rounding soil is entirely clogged and no longer able to absorb the effluent, the old wells should be filled in with earth and two new ones constructed. These tanks, with the sewer and drain, should cost about \$140.

THE CASE OF THE SEASHORE COTTAGE

The last case to consider is a cot-tage by the seashore. You, the owner, do not want a leaching cesspool, owdo not want a leaching cesspool, owing to the proximity of your neighbors' houses and the danger to nearby wells. You have not land enough, however, to accommodate a regular tile disposal field. Besides that, your household averages only four or five persons. Consequently, the expense seems unreasonable. And you are perfectly right. If you have a heavy clay soil to contend with, a complete system might be the only sanitary alternative, but with the sandy gravel soil of the seashore there is a very efficient combination much less exefficient combination much less expensive to construct.

First comes the tank built of con-

What you need in this case are two crete and located underground 50' or dry wells about 3' in diameter and 5' more from the house. It should be crete and located underground 50 or more from the house. It should be 7' deep and about 6' long and 5' square. The manhole cover should be absolutely tight and the concrete walls of a rich mixture to insure the tanks being waterproof. As in the case of the larger septic tanks, both inlet and outlet pipes must be fitted with tees to avoid disturbing the surface of the sewage. face of the sewage.

From the tank toward the downhill side dig a trench 2' deep and 2' wide for a distance of 45'. If the property line interferes, the trench need not be straight, as long as it has a slight, even grade away from the tank. In the trench upon a gravel bed 9" deep lay 40' of 4" land tile connecting into lay 40 of 4" land tile connecting into the tank with 5' of sewer pipe. The land tile must be laid with open joints as described above, and the trench filled with gravel and sand. This tank, with the connecting sewer and drain, should not cost, under average conditions, more than \$190.

Although easy to construct and Although easy to construct and practical, even upon small pieces of property where the soil is porous, this arrangement combines the two essential factors of a disposal system. That is, the warm and dark tank provides an ideal place for the action of the anerobic bacteria, which are active agents in the decomposition of the organic matter in the sewage, and the tile drain which the sewage, and the tile drain which distributes the effluent near the surface of the ground makes possible the absorption and oxidation of the more liquid substances by the vegetation and action of the anærobic bacteria. In this way Nature's scavengers are turned to use, and the dangerous organic compounds, broken up into their constituent parts, largely cease to be a menace to human health, a vital necessity in any home.

Considering the Lilies

(Continued from page 19)

Note that it is early spraying, how- not having a colony of it. It is called ever, as well as constant, that should Lilium tenuifolium. be the practice; and the spraying of plants that are so healthy that it "seems foolish to do it." When they are in less perfect condition than this at the time of applying the spray, the mischief is already done beyond repair.

SOME OTHER GOOD KINDS

One of the most picturesque of all the lilies that we can have in the garden came out of China not so very many years ago, and is named for its discoverer, Dr. Henry. And though Lilium Henryi is still expensive enough to seem an extravel. sive enough to seem an extravagance, because there are not as many bulbs the most gorgeous things in all the for sale as the market demands, it floral kingdom, with its great white, is so hardy and easily grown, and it multiplies so rapidly, that it is not really such. Of amazing strength normally as much as 6" to 8" across, and vigor, it grows as high as one's and sometimes they measure quite 1'; head, and a single bulb not infrequently bears fifteen to twenty flowone's head is truly a regal sight. The season of its bloom is long, too, quently bears fifteen to twenty flowers. In color it is a deep yellow, a little different from most yellows. The season of its bloom is long, too, provided there are several of the bulbs planted, for in a group some will come into flower at one time and some at another. The siberian coral lily is a low growing and beautiful scarlet that everyone can grow, and that propagates very easily, too. Either from its seeds or its bulb scales it may be multiplied, so there is no reason for them towering above one's head is truly a regal sight, are season of its bloom is long, too, provided there are several of the bulbs planted, for in a group some will come into flower at one time and some at another.

The tiger lily we must not by any means leave out, although it is rather coarse and stiff and common. So is blue sky common, for that matter; that is nothing against it. Do not get the ordinary L. tigrinum, which is L. tigrinum var. splendens. This has larger clusters of orange colored blossoms, spotted with maroon, and is altogether a finer and better plant in every way.

The old Nankeen lily—the one suspected of being a hybrid—is L. testaceum, and nothing is more fragrant and creamy and stately than this lovely species. It and the two above are Turk's caps. L. Japonicum is a pink outside and white within that should not be omitted. It is the trumpet form, of course. I am almost tempted to omit the "gold banded lily of Japan"—the splendid Lilium auratum—not because it is difficult to grow, but because it is not permanent and needs The old Nankeen lily-the one sus-

And cause it is not permanent and needs constant renewing. Of course, there is no question about its being one of the most gorgeous things in all the and sometimes they measure quite 1, a cluster of them towering above one's head is truly a regal sight. The season of its bloom is long, too, provided there are several of the bulbs planted, for in a group some

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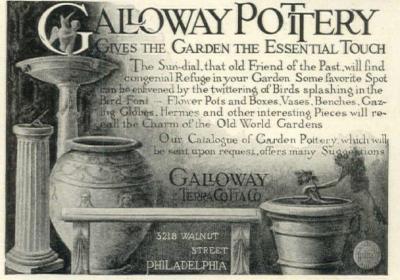
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Considering The Lilies

(Continued from page 52)

Be careful not to confuse it with the

Be careful not to confuse it with the Japanese *L. speciosum*.

The other native is orange and red with dark spots, and there is a yellow form known as var. *flavum* or *luteum*. Any or all of these will succeed in fairly heavy soil, but for the rest of the family light and sandy earth is preferable. They will grow in most good garden soils, provided there is perfect drainage. This is absolutely essential. solutely essential.

Consider the character of a lily bulb for a moment, and you will see why. Composed of layer after layer of overlapping scales, is there anything less calculated to resist the ravages of moisture? Most complete anything less calculated to resist the ravages of moisture? Most complete drainage is easily seen to be almost their greatest necessity, and lack of it their greatest handicap. And as heavy soils do not dry out as quickly as sandy soils, nor drain as thoroughly after heavy rains, they naturally do not suit lilies. Some of the Japanese species, indeed, cannot endure a particle of moisture entering the bulb; and the Japanese gardeners have learned to plant these on their sides to ensure keeping their hearts perfectly free from it.

Extremely susceptible to heat, also, are lily bulbs, so they must not only go into well drained earth, but deep into it. If they can go where the sun will not strike during the heat of summer, so much the better.

sun will not strike during the heat of summer, so much the better. Thus it is that in the shrubbery border they do the best, usually, for here the earth above them is shaded and cool, though the stalks and leaves and flowers are not deprived of sun. This is what they like best: sun at their tops, but shadow at their feet.

All of the Japanese species send out roots above the bulb, along the stalk when this has grown. To give these proper protection and sufficient these proper protection and sufficient depth to ensure their not drying out, the bulbs must be set very much deeper than those of other species. Ten inches below the surface of the ground is not a bit too much, which means that a hole I' deep should be dug for every bulb. Make its diameter 1½" or 2" more than the diameter of the bulb, and put 1" of clean sand in the bottom of it. Set the bulb on this, sift more sand around it to fill the space and cover it to a depth of 1". Then put in the earth. This not only ensures perfect drainage, but also shields the bulb from direct contact with anything in-

Lilies generally prefer a light, rich soil, but some will grow where these it. Manure should never touch a ideal conditions do not prevail. The lily bulb—nor any kind of bulb, for best to choose for really heavy soil that matter—yet lilies need plenty of would be tigrinum, splendens, the native Canadense, or the also native superbum, called the American Turk's cap. This last is pronounced through the leaching down of the the very best tall red Turk's cap moisture that has passed through the there is; it is one of the orange-reds. Thus Be careful not to confuse it with the

moisture that has passed through the manured soil above them. Thus they are properly enriched, while in no danger of being injured.

Bulbs of the European and native species need not go more than 6" below the surface of the ground, for these do not produce the lateral roots along their stalks above the bulb. Otherwise it is well to plant them just the same, as far as sand and precautions against contact with and precautions against contact with manure are concerned, as the Jap-

anese species.

All lilies should be mulched in the fall, after the top growth is dead, with strawy manure or autumn leaves. If you use the latter, let the lower layer of them remain each season. No fertilizer is more valuable than the leaf mold thus accumulated above the bulbs, to be carried down to their roots in the course of time, rich in plant food.

THE EASY-TO-GROW LILIES

Yellow-Lilium elegans, alutaceum-Japan. partheneion concolor, China.

testaceum (Nankeen lily)
—Probably Europe.
Canadense, flavum—North

America. Lilium elegans, fulgens—Japan. "Henryi—Japan.

Orange-red-Lilium elegans, fulgens—Japan.
"tigrinum, splendens—Japan
and China.

Scarlet-Lilium elegans, atrosanguineum-Japan.

Japan.
concolor—China.
tenuifolia (Siberian coral
lily)—Siberia.
superbum (American Turk's
cap)—North America.

Chalcedonicum-Greece.

Yellow and red-Lilium elegans, bicolor-Japan. Pink-

Lilium speciosum—Japan. " Joponicum—Japan. Rose-red-

Lilium speciosum, rubrum-Japan. Burgundy-red-

Lilium Brownii-Japan. White-

Lilium longiflorum (Easter lily)—
Japan, China, Formosa.

" candidum (Madonna lily)
—Southern Europe.

" auratum (Gold banded)—

Japan.



Constructing The Private Garage

(Continued from page 25)

When the turntable is omitted, a pit here again the highly inflammable nacan be constructed in the floor to ture of gasoline and oil comes in. In enable working beneath the car, but the absence of a turntable the floor this is undesirable generally because it cuts into the floor and is dangerous when the car is not over it. Lots of when the car is not over it. Lots of built-in shelves, cupboards, drawers, etc., lighten the work and give good storage space. They add little to the cost compared with their value.

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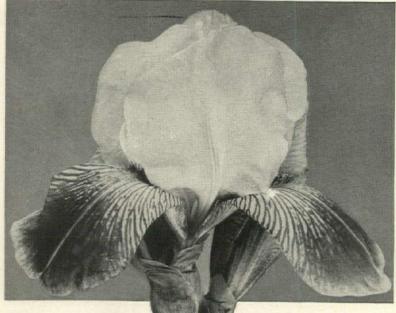
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Gard. Chron., April 29, 1916.

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ing. 50 cts.

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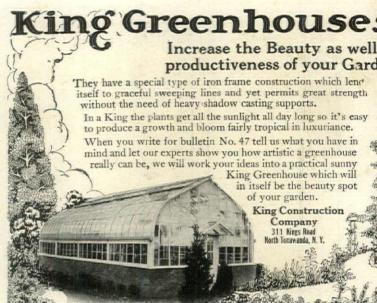
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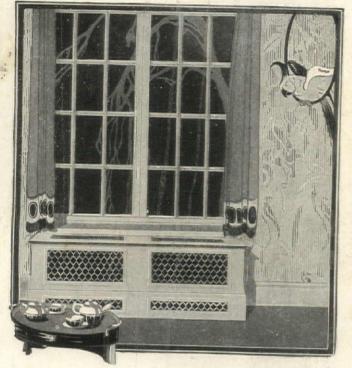
Statement of the Ownership, Management, etc., Required by the Act of Congress of August 24, 1912, of House & Garden, published monthly at New York, N. Y., for Aprill 1, 1916. State of New York, County of New York, ss. Before me, a Notary Public in and for the State and county aforesaid, personally appeared George von Utassy, who having been duly sworn according to law, deposes and says that he is the Business Manager of House & Garden and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 443. Postal Laws and Regulations to wit: 1. That the above caption, required by the Act of August 24, 1912, embodied in section 443. Postal Laws and Regulations to wit: 1. That names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Condé Natt & Co., Inc., 440. Fourth Ave., New York, N. Y.: Editor, Richardson Wright, 440. Fourth Ave., Lew York, N., Y. Managing Editor, None; Business Manager, George von Utassy, Cedar-hurst, L. I., N. Y. 2. That the owners are: (give names and addresses of stockholders owning or holding 1 per cent or more of the total amount of stock;) Condé Nast & Co., Inc., 440. Fourth Ave., New York, N. Y.: Stockholders of Condé Nast & Co., Inc., 440. Fourth Ave., New York, N. Y.: Stockholders of Condé Nast & Co., Inc., 440. Fourth Ave., New York, N. Y.: Stockholders of McBride, Nast & Co., 3: E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17th St., New York, N. Y.: Stockholders of McBride, Nast & Co., 1 E. 17











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